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UNITED STATES
OFFICIAL CATALOGUE



UNIVERSAL EXPOSITION AT PARIS 1878



PARIS UNIVERSAL EXPOSITION
MDCCC LXXVIII



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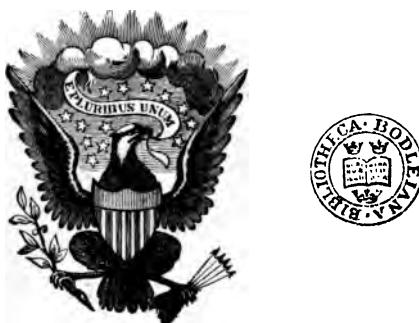


PARIS UNIVERSAL EXPOSITION
MDCCC LXXVIII



OFFICIAL CATALOGUE
OF THE UNITED STATES
EXHIBITORS

Compiled by THOMAS R. PICKERING and published
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JOINT RESOLUTION OF CONGRESS

In relation to the International Industrial Exposition to be held in Paris in eighteen hundred and seventy-eight.

WHEREAS, the United States have been invited by the Republic of France to take part in a Universal Exposition of the productions of agriculture, manufactures, and the fine arts, to be held in Paris in eighteen hundred and seventy-eight: Therefore,

Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That said invitation is accepted, and that the Governors of the several States and Territories be, and are hereby, requested to invite the people of their respective States and Territories to assist in the proper representation of the productions of our industry, and of the natural resources of the country, and to take such further measures as may be necessary in order to secure to their respective States and Territories the advantages to be derived from this beneficent undertaking.

SEC. 2.—That the President, by and with the ad-

viii *JOINT RESOLUTION OF CONGRESS*

vice and consent of the Senate, shall appoint a Commissioner-General to represent the United States in the proposed exposition, and, under the general direction of the Secretary of State, to make all needful rules and regulations in reference to the contributions from this country, and to control the expenditures incident to the proper installation and exhibition thereof, and to the preparation of the reports on the exposition; and that the President may also appoint twenty additional commissioners, no two of whom shall be appointed from any one State, of whom three shall be practical artisan experts, three shall be skilled representatives of commerce and manufactures, and four shall be practical agriculturists, nine shall be scientific experts, corresponding to and specifically assigned to report upon, the nine groups into which the exposition will, under the official regulations, be divided, and one who shall be assistant commissioner-general, and shall perform the duties of commissioner-general in case of his death or disability, and shall report upon the exhibition at large, and the general results thereof; that the allowance to said commissioner-general for salary and personal expenses shall not exceed five thousand dollars for his whole term of office; and the allowance of the twenty additional commissioners for salary and personal expenses shall not exceed twelve hundred dollars each, not including such clerical service as may be allowed by the commissioner-general, which shall not exceed fifteen thousand dollars; and the Governors of the several States may nominate and the President appoint two honorary commissioners from each of the several States, and the President may appoint twenty-four additional honorary commissioners, among whom there shall be at least one resident of

each of the Territories of the United States, which said honorary commissioners may report upon such special subjects as the commissioner-general may direct, and shall serve without pay or other expense to the United States. *And provided further*, That in case the authorities of any State or Territory shall appoint a commissioner or commissioners to represent the interests of such State or Territory at said exhibition, said commissioner or commissioners so appointed shall have the same status in the commission as the honorary commissioners provided for herein, but shall not be entitled to either pay or compensation out of the money hereby appropriated. *Provided always*, That no person appointed by virtue of this resolution shall have any pecuniary interest, directly or indirectly, in any article exhibited for competition, or act as the agent for any exhibitor. And not more than one of the commissioners entitled to compensation, nor more than five of the honorary commissioners shall be appointed from any one State or Territory.

SEC. 3.—That the President be authorized, in his discretion, to assign one or more of the public vessels to transport to and from France, free of cost, under regulations to be prescribed by the commissioner-general, such articles as may be offered for exhibition by the citizens of the United States.

SEC. 4.—That in order to defray the necessary expenses above authorized, and for the proper installation of the exhibition, and the expenditures of the commissioner-general made under the direction of the Secretary of State, and with his approval, and not otherwise, there be, and hereby is, appropriated, out of any money in the Treasury of the United States not otherwise appropriated, the sum of one hundred

x *JOINT RESOLUTION OF CONGRESS*

and fifty thousand dollars, or so much thereof as may be necessary for the purposes herein specified, which sum shall be expended under the direction of the Secretary of State; and out of such amount the Commissioner of Agriculture is hereby authorized to collect and prepare as far as practicable, and with as little delay as possible, suitable specimens of the agricultural productions of the several States and Territories of the Union for exhibition at the Paris Exposition.

SEC. 5.—That it shall be the duty of the Secretary of State to transmit to Congress a detailed statement of the expenditures which may have been incurred under the provisions of this Resolution, together with all reports called for under Section 2 of this Resolution, which reports shall be prepared and arranged with a view to concise statement and convenient reference.

Approved, December 15, 1877.





UNITED STATES COMMISSIONERS

COMMISSIONER GENERAL

*Appointed by the President and Confirmed by the Senate,
December 15, 1877*

RICHARD C. McCORMICK
Washington, D. C.

ADDITIONAL COMMISSIONERS

Appointed by the President.

F. A. P. BARNARD,* New York City.
DANIEL J. MORRELL, Johnstown, Pennsylvania.
ORESTES CLEVELAND, Jersey City, New Jersey.
DONALD G. MITCHELL, New Haven, Connecticut.
WILLIAM W. STORY, Boston, Massachusetts.
HENRY HOWARD, Providence, Rhode Island.
WILLIAM T. PORTER, Wilmington, Delaware.
THOMAS B. FERGUSON, Baltimore, Maryland.
WILLIAM A. ANDERSON, Lexington, Virginia.

* Designated to act as Assistant Commissioner General.

GEORGE W. CAMPBELL, Delaware, Ohio.
JOHN J. WOODMAN, Paw Paw, Michigan.
ANDREW J. SWEENEY, Wheeling, West Virginia.
SAMUEL DYSART, Franklin Grove, Illinois.
THOMAS E. JENKINS, Louisville, Kentucky.
FLOYD P. BAKER, Topeka, Kansas.
JAMES D. HAGUE, San Francisco, California.
P. M. B. YOUNG, Atlanta, Georgia.
ARISTIDE GERARD, New Orleans, Louisiana.
JOSHUA L. CHAMBERLAIN, Brunswick, Maine.
SYLVESTER WATERHOUSE, St. Louis, Missouri.

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Appointed by the President.

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LEVI P. MORTON, New York City.
GEORGE W. CHILDS, Philadelphia, Pennsylvania.
W. W. H. DAVIS, Doylestown, Pennsylvania.
A. L. COOLIDGE, Boston, Massachusetts.
FREDERICK SMYTHE, Manchester, New Hampshire.
EDWIN COWLES, Cleveland, Ohio.
JAMES H. SMART, Indianapolis, Indiana.
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JAMES M. SAFFORD, Nashville, Tennessee.
WILLIAM SELIGMAN, San Francisco, California.
SERENS T. MERRILL, Beloit, Wisconsin.
WILLIAM A. MOORE, Edenton, North Carolina.
L. J. DU PRÉ, Austin, Texas.
EDWARD H. KNIGHT, Washington, District of Columbia.

JOHN A. TONNER, Yuma, Arizona.
AUSTIN SAVAGE, Boise City, Idaho.
JOSEPH P. WOOLMAN, Helena, Montana.
CARL C. P. MEYER, Yankton, Dakota.
C. H. BENNETT, Salt Lake City, Utah.
WM. C. RENCHER, Santa Fe, New Mexico.
WILLIAM R. STEELE, Cheyenne, Wyoming.
ELLWOOD EVANS, Olympia, Washington Territory.

HONORARY COMMISSIONERS

*Nominated by the Governors of the States and appointed by the
President.*

ALABAMA.

EUGENE A. SMITH, Tuscaloosa.
JAMES BERNEY, Montgomery.

ARKANSAS.

GEORGE E. DODGE, Little Rock.
BENTON J. BROWN, Van Buren.

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WILLIAM C. QUINBY, San Francisco.
HENRY G. HANKS, San Francisco.

COLORADO.

ROBERT H. LABOURN, Denver.
MIERS FISHER, Denver.

CONNECTICUT.

WILLIAM P. BLAKE, New Haven.
HENRY C. WHITE, Hartford.

DELAWARE.

ALEXANDER MCLEOD, Wilmington.
ROBERT W. MUSTARD, Lewes.

FLORIDA.

GEORGE P. HART, Jacksonville.
JOHN E. HARTRIDGE, Jacksonville.

GEORGIA.

JOHN A. SPEER, La Grange.
FRANCIS FONTAINE, Columbus.

ILLINOIS.

JOHN M. GREGORY, Champaign.
OSBORN R. KEITH, Chicago.

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CLEM STUDEBAKER, South Bend.
FRANK C. JOHNSON, New Albany.

IOWA.

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EUGENE L. MEYER, Hutchison.
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OREGON.

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HOMER DEARBORN SANBORN, Portland.

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J. HERBERT SHEDD, Providence.
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J. N. CAMDEN, Parkersburg.

WISCONSIN.

ROBERT H. BAKER, Racine.
JOSEPH G. THORP, Eau Claire.





OFFICIAL INSTRUCTIONS.

DEPARTMENT OF STATE,

WASHINGTON,

March 12th, 1878.

NDER the Joint Resolution of Congress, in relation to the International Industrial Exposition to be held in Paris in 1878 (approved Dec. 15th, 1877), the Honourable RICHARD C. McCORMICK has been appointed Commissioner-General to represent the United States at the said Exposition, and, under the general direction of the Secretary of State, to make all needful rules and regulations in reference to the contributions from this country, and to control the expenditures incident to the proper installation and exhibition thereof, and to the preparation of the reports on the Exposition.

The rules and regulations which he has already prepared and issued are approved, and the following general directions are prescribed :

The supervision and management of the Exhibition upon the part of the United States, and the control of all interior and exterior space allotted for the same by the

French authorities, will be exclusively in the hands of the Commissioner-General.

The selection of superintendents, clerks, and all employés to be paid out of the Congressional appropriation, will be left to him ; and all persons employed in connection with the United States department at the Exposition by Exhibitors, or in any way occupied upon the premises, will be under his direction.

The Assistant Commissioner-General will perform the duties of the Commissioner-General in his absence, and will also report upon the Exposition at large, and the general results thereof. Such report must be furnished to the Department of State by May 1st, 1879.

The Additional Commissioners appointed as practical artisan experts, and those appointed as skilled representatives of commerce and manufactures, will undertake the work of examining and reporting upon such classes in the grouping of the Exposition as may come within the particular line of their knowledge and experience.

The Additional Commissioners appointed as practical agriculturists, will undertake similar duties in connection with the agricultural and horticultural departments of the Exposition.

The Additional Commissioners will be entitled to no compensation or allowance beyond the sum of twelve hundred dollars each provided by Congress, nor will they be paid the whole or any part of said sum unless they report to the Commissioner-General, in Paris, and remain there in the discharge of the duties assigned to them until formally relieved by him, and in all matters in connection with the Exposition they will act under his direction.

In the Main Exposition Building, or elsewhere, as it may prove most convenient, an office will be provided

for the Additional Commissioners, and a suitable person placed in charge of it as a general Secretary.

Necessary clerks for the Additional Commissioners, not to exceed one for two Commissioners, may be provided by the Commissioner-General during the time said Commissioners remain at the Exposition in the discharge of official duty, or during so much of said time as the services of clerks may be required.

The Commissioner-General may call meetings of the Additional Commissioners for any purpose, at his discretion, and preside at the same, or designate an Additional Commissioner who shall take the chair.

The Commissioner-General may designate any of the Honorary Commissioners to report upon special subjects, but in each instance he will see that they investigate and report upon subjects to which the Additional Commissioners formally assigned by the President to the nine groups (into which the Exposition under the French regulations is divided), will be unable to give attention.

The Commissioner-General is not authorized, under the resolution of Congress, to provide Honorary Commissioners with clerical assistance, or to assume any expense whatever upon their account.

The reports upon inventions and the various products displayed which are most advanced in the sciences, in the arts and in the industries, are expected to give a clear and practical description of such inventions, and of the methods and processes connected with such products.

Each report will be made upon the responsibility of the person charged with it, and he will sign his name to it.

The reports will be transmitted to the Department of State with as little delay as possible after the close of the

Exposition—certainly not later than the first of January, 1879.

They must be in form fitted to transit to Congress for publication, subject to arrangement with a view to concise statement and convenient reference.

W.M. M. EVARTS.





THE STAFF OF THE COMMISSIONER- GENERAL.

Secretaries.

FRANK W. CLANCY.
AUGUSTE H. GIRARD.

Engineer and Architect.

HENRY PETTIT.

Secretary.

GEORGES PATTE.

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Machinery : THOMAS R. PICKERING.
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Military Attaché.

LIEUT. ALEXANDER RODGERS, U.S.A.

Naval Attaché.

LIEUT. BENJ. H. BUCKINGHAM, U.S.N.

**Officers of United States Marines assigned to
Duty at the Exposition.**

LIEUT. BENJAMIN R. RUSSELL.

LIEUT. WILLIAM F. ZEILIN.

Medical Attaché.

DR. EDWARD WARREN.

**Clerical Assistants to the Commissioner-General
and the Additional Commissioners.**

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RUDOLPH KAUFFMANN. WILLIAM A. BROWN.

SAM. W. SMALL. CHARLES T. ELY.

WALTER W. BARKER. HERMAN L. PHELPS.

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BRACHER, T. W., New York City.

Ventilators, Air Filters, and Moisteners, &c.

BRADLEY, MRS. M., Morrisania, N. Y.

Lunch Heater.

CRANE BROS. MANUFACTURING CO., Chicago, Ill.
Malleable Iron Fittings, and Brass Valves, Cocks, &c.,
for Gas, Steam, and Water.

DOTY, H. H., Washington, D. C.
Lamp for Lighthouses.

FLETCHER MANUFACTURING CO., Providence, R. I.
Shoe Strings, Kerosene Lamp and Stove Wicks.
See also Class 37.

FUNCK, JOSFPH, Staten Island, N. Y.
Lamps for Lighthouse and Domestic use.

HALLER, ELLA, Philadelphia.
Hydro-Platinum, self-lighting Lamp, non-explosive.
See also Classes 71 and 73.

HENIS, CHAS. F., Philadelphia.
Adjustable Lock Elbow, for Stove, Heater, and Conductor Pipes.

IDEN AND CO., New York City.
Chandeliers and Gas Fixtures.

LEEDS (L. W.) AND CO., New York City.
Diagrams, Illustrating Method of Ventilating and Warming Buildings.

LIEBRANDT AND McDOWELL STOVE CO., Philadelphia.
Heating Stoves, Cooking Stoves, Ranges, and Laundry Stoves.

OLMSTED, L. H., New York City.
Night Lamps, "Little Harry's Odourless."

OPEN STOVE VENTILATING CO., New York City;
Factory, Phillipsburg, N. J.
One "Fire on the Hearth" combination of an Open Fire,
Close Stove, and Warm-air Furnace.

RATHBONE, SARD AND CO., Albany, N. Y.
Stoves and Ranges.

Class 28.—Perfumery.

LORENZ BROS., Toledo, Ohio.
Perfumery and Articles for the Toilet.

**Class 29.—Leather Work, Fancy Articles, and
Basket Work.**

COOK, Mrs. M. A., San Francisco, Cal.
Natural Flowers, chemically preserved.

DORMAN MANUFACTURING CO., New York City.
Ja-se-po-ri Ware. (Bamboo.)

PATTBERG (LEWIS) AND BRO., New York City. Factory,
Jersey City.
Velvet and Metal Picture Frames, Toilet Mirrors, Glove
and Handkerchief Boxes, Albums.

TIFFANY AND CO., New York City.
Cases for Diamond and Gold Jewellery, and Silver Ware,
made of Woods, Leathers, Stuffs, Velvets, Satins, &c.
of novel designs and application of materials. Plate
Chests for family plate.

See also Classes 23, 24, 25, 39, and 43.





Group 4.—Textile Fabrics, Clothing and Accessories.

Class 30.—Cotton, Thread and Fabrics.



WELLDALE CO., Providence, R. I.
Cotton Sheetings and Quilts, &c. Bleached
Sheetings.

APPLETON, COMPANY, Lowell, Mass.
Unbleached and Grey Cotton Cloth.

COFFIN, ALTEMUS AND CO., Philadelphia.
Cotton Goods.

DUNNELL MANUFACTURING CO., Pawtucket, R. I.
Printed Calicoes.

ENTERPRISE MILLS, Augusta, Ga.
Cotton Fabrics.

FORESTDALE MANUFACTURING CO., Slatersville, R. I.
Bleached Cotton Goods.

GREENE (S. H.) AND SONS, Riverpoint Post Office, R. I.
Calicoes, Handkerchiefs, &c.

GROSVENOR, WM. H., JUN., Providence, R. I.
Cotton Goods.

GROTON MANUFACTURING CO., Providence, R. I.
Bleached Cotton Goods.

JACKSON CO., Nashua, N. H.
Unbleached or Grey Cotton Cloth.

LANGLEY MILLS, Augusta, Ga.
Cotton Fabrics.

LEWIS BROS. AND CO., Providence, R. I.
White and Coloured Cotton Fabrics.

MANVILLE COMPANY, Providence, R. I.
Cambric Linings.

MISSISSIPPI MILLS, Wesson, Miss.
Jeans, Tweeds, Doeskins, Cotton Plaids, Checks, Sheet-
ings, Shirtings, &c.

MUDGE (E. R.) SAWYER AND CO., New York City.
Cotton Goods.

NASHUA MANUFACTURING CO., Nashua, N. H.
Unbleached or Grey Cotton Cloths and Flannels.

OCEAN MILLS, Newburyport, Mass.
Unbleached and Grey Cotton Cloth.

PONEMAH MILLS, Providence, R. I.
Bleached and Brown Cotton Goods.

POWHATTAN MILLS, Providence, R. I.
Brown and Bleached Cottons.

PRETTY, GRIME, AND CO., Philadelphia.
Grey and Mourning Prints.

PROVIDENCE STEAM MILLS, Providence, R. I.
Bleached Cotton Goods.

SEMPLE (SAMUFL) AND SONS, Mount Holly, N. J.
Spool Cotton.

SLATER COTTON CO., Providence, R. I.
Bleached Sheetings.

SLATER, JOHN F., Jewett City, Conn.
Cheviot Shirtings.

TRAINER (DAVID) AND SONS, Linwood, Pa.
Omega Tickings.

UPHAM, TUCKER AND CO., Boston, Mass.
Cotton Fabrics.

WAMSUTTA MILLS, New Bedford, Mass.

Bleached and Brown Shirtings, Cambrics, &c.

WAUREGAN MILLS, Providence, R. I.

Brown and Bleached Cotton Goods.

WILLIMANTIC LINEN CO., Hartford, Conn.

Spool Cotton.

Class 34.—Silk and Silk Fabrics.

CHAFFANJON, C., Hudson City, N. J.

Silk Serges, Satins, and Dress Silks.

CROZIER, L. S., Williamsburg, Kansas.

Silk Cocoons, Eggs of Silk Worms, and Reeled Silk.

NONOTUCK SILK CO., Florence, Mass.

Spool Sewing Silk.

POLK, L. L., Raleigh, N. C.

Raw Silks.

See also Class 46.

STEARNS (JOHN N.) AND CO., New York City.

Manufactured Silk.

**Class 36.—Lace, Net, Embroidery, and
Trimmings.**

BRUSH, VIRGINIA, New York City.

Ornamental Screen, Painted in Water Colours and Embroidered in Silk Floss.

CURTIS, GEO. H. W., New York City.

Specimens of Cutting, and Designs for Fine Shoes and Fine Machine Needlework.

CURTIS AND PARTRIDGE, New York City.

Gentlemen's Boots and Shoes.

WHEELER AND WILSON MANUFACTURING CO., New

York City. Manufactory, Bridgeport, Conn.

Specimens of Sewing Machine Work.

See also Classes 7, 44, 54, 58, and 61.

WINN (MRS. MABEL E.), New York City.
Specimens of Ornamental Needlework, made with
Wheeler and Wilson's Sewing Machine.

**Class 37.—Hosiery and Underclothing and
Accessories of Clothing.**

FLETCHER MANUFACTURING CO., Providence, R. I.
Shoe Strings.
See also Class 27.

NATIONAL SUSPENDER CO., New York City.
Suspenders and Suspender Webbings.

PALMO SUN-SHADE CO., New York City.
Sun-shades for protection against Sun-stroke, arranged
so as not to interfere with any position in which the
body of a person be placed during daily occupations.

SACHSE (F.) AND SON, Philadelphia.
Shirts.

WARNER, BROS., New York City.
Patent Corsets.

WATERBURY BUTTON CO., Waterbury, Conn.
Metallic Buttons, Army, Navy, and other special de-
signs.

Class 38.—Clothing of Both Sexes.

BENKERT (C.) AND SON, Philadelphia.
Boots, Shoes, &c.

BURT, E. C., New York City.
Ladies' Boots and Shoes.

DEMAREST, MR. AND MRS. JENNINGS, New York City.
Fashion Plates and Dress Models.

GOSSAMER RUBBER CLOTHING CO., Boston, Mass.
Rubber Clothing, Water and Heat Proof.

LIBBY, JAMES L., New York City.

Paper Collars and Cuffs, and Cloth Faced Paper Collars
and Cuffs.

MASSEY, G. B., New York City.

Massey's Revolving Boot and Shoe Heel Protector.

MORRIS (E.) AND CO., Philadelphia.

Felt and Silk Hats.

NATIONAL RUBBER CO., Bristol, R. I.

Rubber Goods.

RAUCHFUSS, G., New York City.

Wigs, Toupees, and Hair Work.

ROBINSON, R., St. Louis, Mo.

Boots and Shoes.

SOLLERS (S. D.) AND CO., Philadelphia.

Children's and Infants' Shoes and Slippers.

STETSON, JOHN B., Philadelphia.

Soft and Stiff Fur, Felt Hats.

ZALLEE, JOHN C., St. Louis, Mo.

Suit of Men's Wearing Apparel.

Class 39.—Jewellery and Precious Stones.

BARROWS (H. F.) AND CO., New York City.

Rolled Plated Jewellery.

BLISS BROS. AND EVERETT, Attleboro, Mass.

Rolled Plated Jewellery.

BLISS AND DEAN, Attleboro, Mass.

Jewellery, Lockets, &c.

FISHER (S. E.) AND CO., North Attleboro, Mass.

Gilt Jewellery.

GREENE (Wm. C.) AND CO., Providence, R. I.

Wire and Coral Jewellery.

HARTMAN, P., New York City.

Filigree Silver Jewellery.

McCALL AND NEWMAN, Philadelphia.
Filled Gold Rings.

MARCY (FRED. J.) AND CO., Providence, R. I.
Rolled Plate, or Soft Solder Jewellery.

MUHR'S (H.) SONS, Philadelphia.
Gold Rings and Lockets.

TIFFANY AND CO., New York City.
Diamond, Gem, Gold, and Enamelled Jewellery.
See also Classes 23, 24, 25, 29, and 43.

WHITNEY (F. G.) AND CO., North Attleboro, Mass.
Gilt Jewellery.

YOUNG AND BENNETT, North Attleboro, Mass.
Gilt Watch and Neck Chains.

**Class 40.—Portable Weapons and Hunting and
Shooting Equipments.**

COLT'S PATENT FIRE ARMS CO., Hartford, Conn.
Guns and Pistols.

JONES, OWEN, Philadelphia.
Automatic Shell Extracting Revolvers. Extracts only
empty shells, leaving the loaded cartridges in the
cylinder.

LOVELL (JOHN P.) AND SONS, Boston, Mass.
Air Guns, Pistols, and Revolvers.

PROVIDENCE TOOL CO., Providence, R. I.
Fire Arms. Breech-loading Sporting Rifles, with their
Various Parts, from a Rough to a Finished State.
See also Class 68.

REMINGTON (E.) AND SONS, Ilion, N. Y.
Breech-loading Fire Arms and Ammunition, Pistols,
Shot-guns, Hunting and Target Rifles, and Ammu-
nition for same. Metallic Cartridges.
See also Class 68.

SHARP'S RIFLE CO., Bridgeport, Conn.
Breech-loading Military and Sporting Rifles.
See also Class 68.

TATHAM AND BROS., New York City.
Shot.

Class 41.—Travelling Apparatus and Camp Equipage.

GOFF, LYMAN B., Pawtucket, R. I.
Package Carrier.

SIMON (EDWARD) AND BROS., Newark, N. J.
Trunks, Travelling Bags, and Materials for same.

Class 42.—Toys.

GRANDPERRET, LOUIS LÉON, New York City.
Mechanical Motor, and Toy Watch.

LAFLIN, J. M., New York City.
Rowing Apparatus for a Home Gymnasium, giving fifty
different ways of exercises.

SCHLESINGER, LEO AND CO., New York City.
Tin and Mechanical Toys.

STEVENS, THE J. E. CO., Cromwell, Conn.
Iron Toys.

TOWER, WM. S., South Hingham, Mass.
Wooden Toys.

YVARD, AUGUST, New York City.
Scientific Toys of Demonstration.





Group 5.—Mining Industries, Raw and Manufactured Products.

Class 43.—Mining and Metallurgy.

BAILEY, LEONARD AND CO., Hartford, Conn.
Adjustable Iron Bench Planes, Try Squares
and Bevels, Box Scrapers and Spoke-
shaves.

BAKER (J. R.) MANUFACTURING CO., New York City.
Anti-Friction, Non-Corrosive Metals.

BARNEY AND BERRY, Springfield, Mass.
Skates.

BARNUM, RICHARDSON AND CO., Lime Rock, Conn.
Salisbury Iron Ores, Charcoal Pig Iron, Car Wheels, &c.
See also Class 64.

BEVIN BROS. MANUFACTURING CO., East Hampton,
Conn.
Bells: Sleigh, House, Hand, Gong, &c.

BOYD AND CHASE, New York City.
Oil Stone for Sharpening Artists' and Mechanics' Tools.

CALIFORNIA, STATE OF, California.
Minerals. (*See Mineral Exhibit of the Pacific Coast.*)

CHAPIN, J. S., New York City.
A Metallic Lock Faucet, for drawing Liquids from Casks,
Cisterns, &c.

COLLINS AND CO., Hartford, Conn.

Axes, Hoes, and Edge Tools.

See also Class 76.

DISSTON (HENRY) AND SONS, Philadelphia.

Saws, and Saw Tools, Cane Knives, Tools for Carpenters, Plasterers, &c.

DIXON (JOSEPH) CRUCIBLE CO., Jersey City, N. J.

Lubricating Plumbeago, Carburet of Iron, Stove Polish, &c.
See also Class 10.

DOUGLASS AXE MANUFACTURING CO., Boston.

Axes, Hatchets, &c.

DOVER STAMPING CO., Boston.

"Dover" Egg Beater.

EAGLESON AND DEVEAU, New York City.

Marbles.

FIELD (A.) AND SONS, Taunton, Mass.

Tacks, Nails, &c.

GEORGIA STATE GEOLOGICAL BUREAU, Atlanta, Ga.

Minerals of Georgia.

GLOBE HORSE-SHOE NAIL CO., Boston.

Horse-Shoe Nails, made by Machinery from Cold Rolled Iron.

GODDARD, CURTIS, Alliance, Ohio.

The little "Speedy" Corn Sheller.

GOULDS' (M.) SONS, New York City.

Stair Rods, Dog Collars, Stair Plates, Curtain Poles, and Trunk Hardware.

GREEN SERPENTINE MARBLE CO., Wilmington, Del.

Maryland Serpentine, or "Verde Antique" Marble.

HAGSTOZ AND TIIORPE, Philadelphia.

Parallel Pliers.

See also Class 26.

HANKS, HENRY G., San Francisco, Cal.

Minerals. (*See Pacific Coast Mineral Exhibit.*)

HINES AND GINNA, New York City.

Oil Tanks of Galvanized Iron, used as reservoirs by retail dealers of Illuminating and Lubricating Oils, and furnished for use of the Commission.

HOOPES AND TOWNSEND, Philadelphia.

Machine or Screw Bolts, Wood or Lag Screws, Boiler and Tank Rivets, Washers. Cold-punched Square and Hexagon Nuts, made by Machinery, producing entire accuracy and uniformity in the sizes of holes and in exterior shape, all surfaces being free from scale or crust. These Nuts are tapped and finished in less time, and with less wear of tools, than the usual hot-pressed or forged Nuts, the chamfer of regular shape and the bright finish of the sides making the rough cold-punched Nut the nearest approach to a polished one.

INDIAN INTERNATIONAL AGRICULTURAL SOCIETY,
Muscogee, I. T.

Stone Coal.

See also Class 46.

JUSTICE, PHILIP SYNG, Philadelphia.

Iron and Steel produced from the ores direct, in reverberatory furnace, in from 4 to 6 hours, no blast furnace operations being required. Invented by Charles Meredith Du Puy, C.E.

LALANCE AND GROSJEAN MANUFACTURING CO.,
New York City.

Culinary Utensils of Tinned Iron, Planished Tin, Polished Iron, Copper and Brass, and Agate Iron, &c.

LOBDELL CAR WHEEL CO., Wilmington, Del.

Cast Chilled Iron Rolls for Calendering Paper.

See also Class 60.

McCURDY, Lime, Conn.

Granite.

McSHANE, HENRY AND CO., Baltimore, Md.

Church Bells and Mountings.

MALLORY, WHEELER AND CO., New Haven, Conn.

Reversible Door Locks, Wrought Iron Padlocks, Door Knobs and Handles in Mineral Porcelain and Bronze.

MANNING, BOWMAN AND CO., West Meriden, Conn.

Silver, Nickel and White Metal Mountings on Sheet Metal Ware, &c.

MERSEREAU, W. T. AND J., Newark, N. J.

Stair Rods.

MINERAL EXHIBIT OF THE PACIFIC COAST.

A Collection of about 2,500 Specimens of Gold, Silver, Lead, Copper, and other ores, and all the mineral products known to exist on the Pacific Coast.

MORRIS, WHEELER AND CO., Philadelphia.

Sample Card, showing Cut Nails.

MOWER, E., Roxbury Station, Conn.

Granite.

NEW ENGLAND GRANITE WORKS, Hartford, Conn.

Vase of Polished "Westerly" Granite. Three twelve-inch Cubes of Granite.

OHIO TOOL CO., Columbus, Ohio.

Carpenters' Hand Tools.

OREGON STATE COMMISSION, Portland, Oregon.

Building Stone.

See also Classes 44, 46, 47, and 69.

PACIFIC COAST MINERAL EXHIBIT.

A Collection of about 2,500 Specimens of Gold, Silver, Lead, Copper, and other ores, and all the mineral products known to exist on the Pacific Coast.

PENNSYLVANIA FILE WORKS. McCAFFREY AND BROTHER, Philadelphia.

Files and Raspas.

PETERS' COMBINATION LOCK CO., Waterbury, Conn.

Combination Locks for Drawers, Post Offices, Padlocks, Safes, &c.

PHILADELPHIA AND READING COAL AND IRON CO.,
Philadelphia.

American Anthracite Coal.

READING HARDWARE CO., Reading, Pa.
Household and other Hardware.

REDDPATH, F. W., Stony Creek, Conn.
Granite for Building and Monumental Purposes.

ROBINSON, S. E., Newark, N. J.
Wrenches and Braces.

RUSSELL AND ERWIN MANUFACTURING CO., New
Britain, Conn.

An assortment of Builder's, Cabinet, and General Hard-
ware, and Tools, including a great variety of Door
Locks, Padlocks, Handles, Bolts, Hinges, Fire-Irons,
Pulleys, Sheaves, Chisels, Screw-drivers, Wrenches,
and general Tools.

See also Classes 11, 25, 59, and 66.

ST. LOUIS STAMPING CO., St. Louis, Mo.
Granite Iron-Ware for Household Use.

SEWARD (M.) AND SON, New Haven, Conn.
Carriage Hardware.

SHELDONS AND SLOSSON, Rutland, Vt.
Blue Mottled Marble.

SHORT, F. W., New London, Conn.
Silex, Glass-sand, Feldspar, Quartz, Kaolin.

SMITH AND EGGE MANUFACTURING CO., Bridgeport,
Conn.
Locks of Various Kinds, Automatically made Window
Sash Chains, Specialties in Hardware, and Light
Metallic Goods in General.

SNELL MANUFACTURING CO., Fiskdale, Mass.
Augers, Car Bits, Auger Bits, Inclinations, Pocket
Levels.

190 *UNITED STATES EXHIBITORS AT THE*

TAYLOR (ROBERT) AND CO., Philadelphia.

Black Lead Crucibles, Covers, Dippers. Skimmer's Retorts for Distilling Zinc from Silver, &c.

THOMPSON, NATHAN, Brooklyn, N. Y.

Universal Window, Door, and Blind Fasteners.

TIFFANY AND CO., New York City.

Electro reproductions of Art Objects.

See also Classes 23, 24, 25, 29, and 39.

TOWER, JOHN J., New York City.

Iron Planes, Wrenches, Padlocks, &c.

WALTON, BROS., New York City.

Lanterns and Lamps, Air Leader Telegraph Pipe, Rigging Thimbles, Navy Galley, Steam Radiator, Conductors' Punch, &c.

WELSH AND LEA, Philadelphia.

Bolts and Nuts for Vehicles.

WEST VIRGINIA, State of.

Limestone, Ores, Coal, Cannel Coal, Coke, Ochre, Sandstone, Freestone, Hydraulic Cement.

See also Classes 44, 46, and 69.

WHARTON, Jos., Philadelphia.

Nickel and Cobalt Ores and Products.

WHEELER (F.) AND CO., Ohio.

Rapid Dressing Slate Machinery.

WHITNEY (A.) AND SONS, Philadelphia.

Car Wheels.

See also Class 64.

WILSON AND BLYE, New York City.

Oil Tank or Safes, for exhibition and for use of commission.

WIMAN, E., New York City.

Cash Register Stamp.

YALE LOCK CO., Stamford, Conn.

Section of Post Office Locks, Bronze Hardware, Time and Bank Locks.

**Class 44.—Products of the Cultivation of Forests
and of the Trades appertaining thereto.**

CLAPP (B. P.) and Co., Pawtucket, R. I.

Woods, and their Products, obtained from them by Dry Distillation.

CRAWFORD (L.) AND CO., Chase's Lake, N. Y.
Hemlock Bark and Extract.

JOHNSON, J. E., St. George, Utah.

Ephedra Antisyphilitica (plant used for tanning).

JONES, SNYDER AND YOUNG, Richmond, Va.
Quercitron Bark.

LIPPINCOTT, WILLIAM H., Philadelphia.

Banner or Shield, exhibiting a variety of Native American Woods.

MACATEE AND BRO., Front Royal, Va.

Sumac in Various Stages of Manufacture.

OREGON STATE COMMISSION, Portland, Oregon.

80 Varieties of Woods of the State.

See also Classes 43, 46, 47, 69, and 73.

PRINGLE, C. G., Charlotte, Vt.
Woods and Barks.

ROBERTS AND CO., New Orleans, La.
Cypress Doors, &c.

SHORT, H. B., Flemington, N. C.
Cypress Shingles.

SMITH, GERMAN, Winchester, Va.
Sumac (Leaf and Ground), Quercitron Bark (Ground and in Stick).

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D.C. W. G. Le Duc, Commissioner.
407 Specimens of Woods of Forest Trees. One large Plank of Redwood, and Photographs of some of the most Useful and Ornamental Trees of America.
See also Classes 46, 47, 51, 69, 73, and 83.

WEST VIRGINIA, STATE OF.

Woods, Willows, and Veneers.

*See also Classes 43, 46, and 69.***WHEELER AND WILSON MANUFACTURING CO., New**

York City. Manufactory, Bridgeport, Conn.

Cabinet Work for Sewing Machine Cases.

*See also Classes 7, 36, 54, 58, and 61.***WILSON (D. H.) AND CO., New York City.**

Corn Brooms, and Wooden Ware, and House Furnishing Goods.

WOODWARD, A., Memphis, Tenn.

Fancy and Fine-grained Woods.

YOUNG (J. S.) AND CO., Hanover, Pa.

Quercitron Bark; bolted, ground, and extract. Flavine in various stages of manufacture.

Class 45.—Products of Hunting, Shooting, Fishing, and Spontaneous Products, Machines and Instruments connected therewith.**BAEDER, ADAMSON AND CO., Philadelphia.**

Glue, Emery, Sand Paper, Hair, Moss, &c.

BOOSS (F.) AND BRO., New York City.

American Furs and Fur Clothing.

CUMMINGS AND LOCKWOOD, New York City.

Curled Hair, &c.

*See also Classes 46 and 51.***SHIELDS, J., Brooklyn, Mass.**

Fishing Tackle, as Silk Lines and Artificial Flies.

TOBIN, JOSEPH F., New York City.

Manufactured Whalebone.

Class 46.—Agricultural Products not used for Food.**ALLEN (J. F.) AND CO., Richmond, Va.**

Tobacco in all Forms.

ARCHER, T. A., New Orleans, La.
Broom Corn and its Manufacture.

AUGUSTA COTTON EXCHANGE, Augusta, Ga.
Cotton.

BIENVILLE OIL WORKS CO., New Orleans, La.
Products from Cotton Seed.

BRAND (J. H.) AND CO., Louisville, Ky.
Tobacco.
See also Class 74.

BUCKNER, S. C., Hopkinsville, Ky.
Tobacco.

BULLARD (D. A.) AND SONS, Schuylerville, N. Y.
Straw Paper Pulp and Paper made from Rye Straw.
See also Class 10.

BURGEOIS, EDMUND, New Orleans, La.
Perique Tobacco.

BUSH, LOUIS, New Orleans, La.
Moss, for Bedding, Packing, &c.

CAREW MANUFACTURING CO., Turner's Falls, Mass.
Paper Stock and Paper.

CLARDY, J. D., Newstead, Ky.
Leaf Tobacco.

CLARKE, JAMES, Louisville, Ky.
Leaf Tobacco.

CLARKE (M. H.) AND BRO., Clarksville, Tenn.
Tobacco.

COCKRILL, M. S., Nashville, Tenn.
Merino Wool.

CONNECTICUT BOARD OF AGRICULTURE, Hartford
Conn. P. M. Augur, Secretary of State Board of
Agriculture, Middlefield.
Leaf Tobacco.
See also Class 69.

CRANE AND CO., Dalton, Mass.

Paper Stock.

See also Class 10.

CRUTCHFIELD, TOM, Chattanooga, Tenn.
Wool.

CUMMINGS AND LOCKWOOD, New York City.
Neats Foot Oil.

See also Classes 45 and 51.

DE GAS, RENE, New Orleans, La.
Cotton.

DILL, JOSEPH T., Charleston, S. C.
Sea Island Cotton.

DUKE, B. L., Durham, N. C.
Smoking Tobacco.

FRISHMUTH BROS. AND CO., Philadelphia.
Manufactured Tobacco.

GOGIN, C. L., New Orleans, La.
Ramie Fibre.

HALLOWAY, THOS., Pomaria, S. C.
Seed Cotton.

HEATH, PIPPEY AND LARA, New Orleans, La.
American Moss.

HIATT (E. J.) AND BRO., Chester Hill, Ohio.
Merino Wool.

HISTER, HENRY G., New Orleans, La.
Cotton.

INDIAN INTERNATIONAL AGRICULTURAL SOCIETY,
Muscogee, Indian Terr.
Tobacco.

See also Class 43.

INDIANAPOLIS BOARD OF TRADE, Indianapolis, Ind.
Linseed Oil.
See also Class 69.

JENKINS (E. C.) AND CO., Louisville, Ky.
Leaf Tobacco.

JONES, H. B., Hillsboro', N. C.
Smoking Tobacco.

JORDAN, J. W., Muscogee, Indian Terr.
Cotton.

KIMBALL (Wm. S.) AND CO., Rochester, N. Y.
Tobacco and Cigarettes.

KLINCK, WICKENBERG AND CO., Charleston, S. C.
Sea Island Cotton.

KNAPP, FRED. JAMES, New Orleans, La.
Ramie Plant, in various Stages, and Fabrics made from
the same.

LEFRANC, E., Philadelphia.
Ramie Fibre.

LIFTEN, BEN., Muscogee, Indian Terr.
Tobacco.

LORRILLARD (P.) AND CO., Jersey City, N. J.
Tobacco and Snuff.

LOTTIER, LAWRENCE, Richmond, Va.
Tobacco.

LOUISIANA OIL CO., New Orleans, La.
Specimens of Cotton Seed, Raw and Hulled, Oil, Sinters,
and Hulls.
See also Class 69.

MAGINNIS (A. A.) SONS, New Orleans, La.
Cotton Seed Oil.

McPHERSON, SAMUEL, Louisville, Ky.
Leaf Tobacco.

MELLEN, LUCIUS F., West Springfield, Mass.
Connecticut Seed Leaf Tobacco.

MEMPHIS COTTON EXCHANGE, Memphis, Tenn.
One Bale of Cotton.

MONTAGUE PAPER CO., Turner's Falls, Mass.
Wood Pulp for Paper.
See also Class 10.

- 196 *UNITED STATES EXHIBITORS AT THE
NEW ORLEANS COTTON EXCHANGE, New Orleans,
La.*
Cotton, Samples of the grades sold in the Market of New Orleans.
NYE, Wm. F., New Bedford, Mass.
Oils for Watch, Clock, and Chronometer use.
OREGON STATE COMMISSION, Portland, Oregon.
Fleece, Merino Wool, Broom Corn, Feathers, Ferns,
Mosses, &c., Hops.
See also Classes 43, 44, 47, 69, and 73.
POLK, L. L., Raleigh, N. C.
Jute.
See also Class 34.
POTTS, S. C., Columbus Co., N. C.
Grey Moss.
RAY, Jno. P., Honeoye, N. Y.
American Merino Wools.
RICAND, Jno., St. James' Parish, La.
Perique Tobacco and Cigarettes.
RUSSELL AND HALL, New Orleans, La.
Perique Tobacco.
SANAZIN, P. E., New Orleans, La.
Snuff, Tobacco, and Chewing Perique Tobacco.
SHELTON TOBACCO CURING CO., Asheville, N. C.
Tobacco.
SMITH (Thos. P.), McIVOR AND CO., Charleston, S. C.
Sea Island Cotton.
THURBER (H. K.) AND F. B. AND CO., New York City.
Cotton Seed, Cotton Seed Oil for lubricating purposes.
See also Classes 69, 71, 72, 73, and 74.
TISCH, DAVID, Oakland, Cal.
Pampas Grasses.
TROWBRIDGE, W. H., Danville, Va.
Smoking Tobacco.

TUSTEN, H. T., Abbeville, S. C.

Stalk of Cotton, and Seed Cotton.

UNITED STATES DEPARTMENT OF AGRICULTURE,

Washington, D. C. W. G. Le Duc, Commissioner.

Fibres and Material employed in the Manufacture of
Paper, and Textile Fabrics, Wools.

See also Classes 44, 47, 51, 69, 73, and 83.

WALLACE, SHIPPEN, Philadelphia.

Oil of Cedar.

WEST VIRGINIA, STATE OF.

Tobacco.

See also Classes 43, 44, and 69.

WEYMAN BROS., Pittsburg, Pa.

Snuff, showing Process of Manufacture; Cut and Dry
Smoking Tobacco.

WILKENS, H., Baltimore, Md.

Leaf Tobacco, Smoking Tobacco, and Snuff.

WILLIAMS (THOS. C.) AND CO., Richmond, Va.

Virginia Leaf Tobacco, Specimens in Various Stages of
Preparation for use.

**Class 47.—Chemical and Pharmaceutical
Products.**

BAKER (H. J.) AND BRO., New York City.

Castor Oil, Borax, Refined Saltpetre, Camphor, and
Refined Epsom Salts.

BLACKMAR AND ALLERTON, Newark, N. Y.

Oil of Peppermint.

See also Classes 69 and 73.

BOLEN AND BYRNE, New York City.

Mineral Waters and Apparatus; Siphons and Aërated
Beverages.

BOWER, HENRY, Philadelphia.

Glycerine and Sulphate of Ammonia.

198 UNITED STATES EXHIBITORS AT THE

CHARD, R. J., New York City.

Lubricine and Automatic Lubricating Cups.

See also Class 54.

CHESEBROUGH MANUFACTURING CO., New York
City.

Vaseline : a concentrated Essence of Petroleum, used
for Medical, Pharmaceutical and Toilet Purposes, in
different forms : as Pomade Vaseline, Cold Cream,
Camphor Ice, Soap, Camphorated Vaseline, and Ve-
terinary Vaseline.

COOKE, GEO. A., Philadelphia.
Medicated Herbaline Catarrh Cigarettes.

DAY, AUSTIN G., New York City.

Kerite Insulated Telegraph Wire, and Cables. Kerite :
a substitute for India Rubber Clothing. Articles
manufactured from Kerite and India Rubber.

DE MORTIE, M., Burkeville, Va.
Oil of Sassafras.

DRISCOLL, T. D., Well Water, Va.
Oil of Sassafras.

EVANS (J. P.) AND CO., Indianapolis, Ind.
Flax Seed. Linseed Oil and Meal.
See also Class 69.

FALLER, GEO. J., Philadelphia.
Sewing Machine Oil.

FORSTALL AND LAROSE, New Orleans, La.
Pine Tar, Spirits of Turpentine, Rosin, &c.

FRAZER LUBRICATOR CO., New York City.
Axe Grease.

FREELAND, ROBT., South Boston, Mass.
Laundry, Toilet, and Manufacturers' Soap.

FRITZSCIHE BROS., New York City.
Essential Oils.

HALE AND PARSHALL, Lyons, N. Y.
Essential Oils : Peppermint, Wintergreen, &c.

HANCE BROS. AND WHITE, Philadelphia.
Chemical and Pharmaceutical Preparations.

HARDRICH (H. G.) AND SONS, Philadelphia.
Harness Oil.
See also Class 63.

HAUTHAWAY (C. L.) AND SONS, Boston, Mass.
Blacking, and Dressing for Leather.

HOTCHKISS, H. G., Lyons, N. Y.
Essential Oils.

HOTCHKISS, L. B., Phelps, Ontario Co., N. Y.
Essential Oils.

HOUGHTON (E. F.) AND CO., Philadelphia.
Cosmoline, or Concentrated and Purified Petroleum.
Cosmoline Lubricating Oils.

HURTT (F. W.) AND BROS., New York City.
Chemicals, Perfumes, and Toilet Articles.

KEITH (B.) AND CO., New York City.
Oil of Erigeron.

LEONARD AND ELLIS, New York City.
Lubricating Oils.

McKESSON AND ROBBINS, New York City.
American Crude Drugs and Essential Oils.

MELLOR AND RITTENHOUSE, Philadelphia.
Extract of Liquorice Root.

OREGON STATE COMMISSION, Portland, Oregon.
Raw and Boiled Linseed Oil, Linseed Cake.
See also Classes 43, 44, 46, 69, and 73.

PEASE, F. S., Buffalo, N. Y.
Illuminating and Lubricating Oils, for exhibition and
for use of Commission.

PHILADELPHIA COLLEGE OF PHARMACY, Phila-
delphia.
Collection of American Drugs.

PIRZ, ANTHONY (*Carniola Chemical Works*), Long Island City, N. Y.
Sugar of Lead.

RESTORFF, BETTMANN AND CO., New York City.
Leather Dressing and Bronze.

SCHIEFFELIN (W. H.) AND CO., New York City.
Soluble Coated Pills.

SEABURY AND JOHNSON, New York City.
Pharmacopœia, Medicinal and Surgical Plasters.

SMITH'S HOMEOPATHIC PHARMACY, New York City.
Homeopathic Preparations; "Alkethupta," a Preparation of Chocolate.

TILDEN AND CO., New York City.
Crude Materials of American Medicinal Plants, such as roots, leaves, barks, berries, &c. Their active principles, solid extracts, and fluid extracts. Fine chemicals and pharmaceutical preparations. Pills, Sugar and Gelatine Coated, Lozenges.

TILDEN (W.M.) AND STOKES, New York City.
Varnishes.

TODD, ALBERT M., Nottowa, Michigan.
Essential Oils: Peppermint, Spearmint, Erigeron, &c.

TUNYOAP MANUFACTURING CO., Boston, Mass.
Tunyoap: a dressing intended to render Leather soft, more durable, and as perfectly waterproof as India-rubber, and takes a fine polish with blacking.

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C. W. G. Le Duc, Commissioner.
Essential Oils.
See Classes 44, 46, 51, 69, 73, and 83.

VALENTINE AND CO., New York City.
Varnishes.

WALLACE BROS., Statesville, N. C.
Medicinal Plants, Herbs, Flowers, &c.

WARNER (W.M. R.) AND CO., Philadelphia.
Sugar-Coated Pills, and Pharmaceutical Products.

WHITE (CHAS. T.) AND CO., New York City.
Pharmaceutical Chemicals.

WOLF BROS. AND KEECH, Centreville, Mich.
Essential Oils of Peppermint, Spearmint, Wormwood,
Tansy, and Erigeron.

WYETH (JOHN) AND BROTHER, Philadelphia.
Pharmaceutical Preparations, Elixirs, Compressed Pow-
ders, Saccharated Pepsin, Dialysed Iron, &c.

YOUNG (D. M.) AND CO., Boston, Mass.
Extract of Bark.

Class 49.—Leather and Skins.

ADAMS AND KEEN, Philadelphia.
Curaçoa Brush Kid.

ADAMS AND SHALER, New York City.
Extract of Bark.

BARNES AND MERRITT, New York City.
Hemlock Leather.

BRAUN, FREDERICK, Philadelphia.
Bark Tanned Calf and Kip Skins.

BROWN, B. F., Boston, Mass.
Blacking.

BULKLEY (J. E.) AND SON, New York City.
Sole Leather.

BUTLER, DUNN AND CO., Boston, Mass.
Buff and Split Leather.

CALLERY (JAS.) AND CO., Pittsburg, Pa.
Leather, for Belting.

CHATFIELD AND GOULD, New York City.
Leather.

DRYDOPPLE, Wm., Philadelphia.
Borax Soap.

FRANTZ (D.) AND SON, Louisville, Ky.
Leather.

GAENSSLER BROS., Gowanda, N. Y.
Sole Leather.

GROETZINGER, A. AND J., Alleghany, Pa.
Oak Sole Leather.

HOLLINGER, AMOS, Lancaster, Pa.
Leather.

HORTON, G. B., New York City.
Hemlock Sole Leather.

HURKAMP, J. G., Fredericksburg, Va.
American Sumac.

JEWELL (P.) AND SONS, Hartford, Conn.
Leather and Leather Machine Belting.
See also Class 54.

KAUFMAN (F.) AND CO., New York City.
Leather.

KECK AND MOSSER, New York City.
Union Crop Leather.

LAPHAM, O. K., New York City.
Sole Leather.

LAPHAM, SMIBERT AND CO., Chicago, Ill.
Leather.

LEAS AND MCVITTY, Philadelphia.
Oak-Tanned Sole Leather.

PALEN (GEO.) AND CO., New York City.
Hemlock Sole Leather.

ROSS, JOSHUA, Muscogee, Indian Terr.
Dressed Buckskin.

SCHULTZ, SOUTHWICK AND CO., New York City.
Sole Leather.

STUDWELL, SANGER AND CO., New York City.
Finished Leather.

THORNE, McFARLANE AND CO., New York City.
Sole Leather.

UNDERWOOD BELTING CO., Tolland, Conn.

809. Main Belts, for use of Commission. One 24 inches
wide; one 18 inches wide, in use in Machinery Gallery.
Two Angular Belts in Agricultural Hall.

WALKER, OAKLEY AND CO., Chicago, Ill.
Sole Leather.

ZIPP, PHILIP C., Baltimore, Md.
Wax Calf Skins, and Boarded Grain Kips, Oak Tanned.





Group 6.—Apparatus and Processes used in the Mechanical Manufactures.

Class 50.—Apparatus and Processes of the Art of Mining and Metallurgy.



IKEN AND DRUMMOND, Louisville, Kentucky.
Machine for Making Moulds for all classes
of Metal Castings, and may be operated
by steam power or by hand.

FAIRBANKS (E. AND F.) AND CO., St. Johnsbury, Vt.
Iron Scales for Foundries, Rolling Mills, &c.
See also Classes 6, 10, 15, 54, 64, and 76.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Mines, Foundries, Furnaces,
&c
See also Classes 6, 10, 52, 54, 64, 68, and 76.

LECHNER MINING MACHINE CO., Columbus, Ohio.
Model of Machine for Mining Coal.

STRIEDINGER AND DOERFLINGER, Brooklyn, N. Y.
Model of Blasting Apparatus as used for the great ex-
plosion at "Hell Gate," N. Y.

WESTON DYNAMO-ELECTRIC MACHINE CO., New-
ark, N. J.
Process of Electroplating, Electrotyping, &c., and Elec-
tric Light Telegraphing, by Means of Electricity from
Motion.

Class 51.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.

AMES, OLIVER AND SONS, North Easton, Mass.
Shovels, Spades, &c.

AUBURN MANUFACTURING COMPANY, Auburn, N. Y.
Agricultural Hand Implements : as Forks, Hoes, &c.

BATCHELLER AND SONS, Wallingford, Vt.
Agricultural Forks.

BAUGH AND SONS, Philadelphia.
Chemical Fertilizers, and Raw Bone Material for same.
See also Class 52.

BROWN, HINMAN AND CO., Columbus, Ohio.
Garden and Farming Tools.

CALVERT SUGAR REFINING CO., Baltimore, Md.
Scum, used for manufacture of Fertilizers.

COOK, GEO. H., New Brunswick, N. J.
Greensand Marls.

CUMMINGS AND LOCKWOOD, New York City.
Bones for Fertilizers.
See also Class 45.

DUBRIL (N.) AND CO., Cincinnati, Ohio.
Cigars and Cigar Moulds.

DUNAN, W. S., Baltimore, Md.
Ammonia, Bone Phosphate, and other Raw Materials
employed in manufacture of Fertilizers.

EDWARDS, V. N., Woods Hole, Mass.
Rock and Gulf Weeds.

McGUIRE, THOMAS D., Philadelphia.
Solid Top Cigar Moulds.

SHEBLE AND FISHER, Philadelphia.
Forks, Drags, Cast-steel Rakes, &c.

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C. W. G. Le Duc, Commissioner.
Bat and Fish Guano, South Carolina Phosphates, Dried Blood, &c.

See also Classes 44, 46, 47, 69, 73, and 83.

WALKER AND DOUGHERTY, Philadelphia.
Bat Guano.

WITHINGTON AND COOLEY MANUFACTURING CO.,
Jackson, Mich.
Garden and Farming Tools.

Class 52.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food.

BAUGH AND SONS, Philadelphia.
Sectional Mills adopted to the reduction of Minerals, Bones, &c.
See also Class 51.

BERGNER, THEODORE, Philadelphia.
Wire Floor for Malt Kilns, made by special machinery invented by the exhibitor. Vastly increased area for passage of Hot Air, combined with smoothness and great strength of surface.

BLATCHLEY, C. G., Philadelphia.
Ice Cream Freezers.

CHADBURN AND COLDWELL, Newburgh, N. Y.
Automatic Beef Cutters.
See also Class 76.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Cheese Factories, Dairies, and Flour Mills.
See also Classes 6, 10, 50, 54, 64, 68, and 76.

MATTHEWS, JOHN, New York City.
Soda Water Apparatus, for dispensing pure Soda Water, and other Aërated Beverages. Marble and Steel Portable Fountains for the transportation of Aërated Beverages, made of Steel and Iron.

- PACKER, CHARLES W., Philadelphia.
Ice Cream Freezers, Cogwheel, Double-action and Confectioners'.
See also Class 60.
- RICHARDSON, D. M., Detroit, Mich.
Wheat Polisher and Separator.

Class 54.—Machines and Apparatus in General.

- ALLEN AND ROEDER, New York City.
Pneumatic Riveting Machinery, and Air Compressor.
- BAGGER, LOUIS, Washington, D. C.
Friction Glass Bearings, Cross Heads, Cylinder Packing Rings, &c.
See also Class 10.
- BANNER (GEO. E.) AND ANNA G. FALES, New York City.
Steam Engine of One-Horse Power.
- BROOKS, EZRA, Hartford, Conn.
"Hartford" Automatic Pumps, worked by Wind Power or by Steam.
- BROWN CALORIC ENGINE CO., New York City.
Improved Caloric Engine, Self-feeding.
- CHARD, R. J., New York City.
Automatic Lubricating Cups.
See also Class 47.
- CLOUGH AND WILLIAMSON, Newark, N. J.
Steel Wire Screws, and Machines for making the same.
- CRESSON, GEO. V., Philadelphia.
Shaftings, Pulleys, Couplings, &c., furnished free of cost for use of Commission, and for exhibition.
- DOUGLAS, W. AND B., Middletown, Conn.
Pumps of all descriptions, both hand and power; for house, factory, yard, or farm use. Hydraulic Rams, Garden Engines, Drive Well Pumps, and Points, Grindstone Frames, and Trimmings, Yard Hydrants, and Street Washers.

208 *UNITED STATES EXHIBITORS AT THE*

EDSON, MARMONT B., New York City.

Automatic Recording and Alarm Gauge, for recording Revolutions and Pressure of Steam, Water, and other Fluids, giving time of variations, and operating a Gong Alarm.

ERVIEN, CHARLES W., Philadelphia.

Horizontal and Vertical Non-Condensing Steam Engine, sent for use of Commission.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.
Scales and Weighing Machines, and Cotton Beam Frame.

See also Classes 6, 10, 15, 50, 64, 76.

FALES, THOS. J. (Agent), New York.

Baxter Portable Steam Engines, of 2, 4, 8, and 10-horse power. One 6-horse power Engine for use of Commission.

GREEN, DAVID C., New York City.

Feed Water Heater.

HANCOCK INSPIRATOR CO., Boston.

An Injector for feeding Water to Boilers, and for elevating Water, having a "lifting" capacity of 25 ft.

HARRINGTON (EDWIN) AND SON, Philadelphia.

Screw Hoisting Machines for exhibition, and for use of Commission.

HEIM, ANTON, New York City.

Leather Belting, Hydraulic Packing Leather, Lithographic Roller, &c.

HERCULES LEVER JACK CO., Newark, N. J.

Hercules Lever Jack Hand Power Press.

HOWE SCALE CO., Rutland, Vt.

Improved Scales and Weighing Machines.

See also Classes 6, 10, 50, 52, 64, 68, and 76.

HOYT (J. B.) AND CO., New York City.

Machine Belting.

JEWELL (P.) AND SONS, Hartford, Conn.

Leather Machine Belting.

See also Class 49.

LANDIS, EZRA F., Lancaster.

Improved "Eclipse" Fan Blower.

LOVEGROVE AND CO., Philadelphia.

Steam Engine and Boiler, Combined, Two-Horse Power.

MASON, A., New York City.

Embroidery Attachments for Sewing Machines.

See also Class 58.

MASON, VOLNEY (W.) AND CO., Providence, R. I.

Friction Clutch-Pulleys, and Elevator Hoisting Machinery.

NASON MANUFACTURING CO., New York City.

"Steam Traps" to release Steam Pipes from Water of Condensation.

NATHAN AND DREYFUS, New York City.

Injectors and Ejectors (Steam Pumps).

NEW YORK SAFETY STEAM POWER CO., New York City.

Horizontal, Vertical, and Launch Engines for Exhibition and for use of Commission.

OSCILLATING PUMP CO., New York City.

Force and Bilge-Pumps.

PENTLARGE, R., New York City.

Patent Vent Bung.

PICKERING (T. R.) AND CO., Portland, Conn.

Steam Engine Governors with Improved Automatic Stop Motion, and Speed Adjuster. For use of Commission on Engines in U.S. Section.

REED, JOHN VAN D., New York City.

Canvas Hose, single and multiply.

See also Class 57.

210 UNITED STATES EXHIBITORS AT THE

RICHARDS, CHAS. B., Hartford, Conn.

Indicator, for Steam Engines, for presentation to the
“Conservatoire des Arts et Métiers,” Paris, at close
of Exhibition.

SCHIEREN, CHAS. A., New York City.
Leather Belting.

SNYDER BROS., New York City.
Snyders’ “Little Giant” Steam Engines, One and Two-
Horse Power.

STOW FLEXIBLE SHAFT CO., Philadelphia.
Flexible Shafts with Drill Presses, Wood Boring Tools,
Stone Finishing Plant, Metal, &c., Polishing Brushes
and other Tools to be operated by Flexible Shafts.

TAYLOR MANUFACTURING CO., Westminster, Md.
One 10-horse power vertical portable “Boss Clipper”
Farm Engine; one 10-horse horizontal portable “Dry
Steam” Farm Engine; one 20-horse power horizontal
semi-portable Engine; two Engines for use of Com-
mission; one model of Clipper Engine, $\frac{1}{8}$ -horse
power.
See also Class 76.

WHEELER AND WILSON MANUFACTURING CO.,
New York City; Manufactory, Bridgeport, Conn.
Sewing Machine Attachments.
See also Classes 7, 36, 44, 58, and 61.

WHEELOCK, JEROME, Worcester, Mass.
Horizontal Non-Condensing Steam-Engine, 17 inches
bore of Cylinder, 48 inches stroke of Piston, with
Wheelock’s Patent Automatic Variable Cut-off Me-
chanism; Wheelock’s Patent Packing for Pistons.
This Engine is used for the transmission of motive
power for the United States, Norwegian and Swedish
Departments.

Class 55.—Machine Tools.

BLAKE CRUSHER CO., New Haven, Conn.

Working Model of Blake's Patent Stone and Ore Crusher: a Machine for reducing rapidly and economically large pieces of Stone, or other hard and brittle substances, by the use of upright, convergent jaws, one of which has a short, vibratory motion.

BLISS AND WILLIAMS, Brooklyn, N. Y.

Presses, Dies, and Machines for making Tin-Ware, and Working Sheet Metals. Two Presses for Cutting, Drawing, and Stamping in one operation. One Press for Drawing. One Lathe for Spinning, Trimming, and Wiring at one setting. Combination Dies for performing different operations at one time. One Machine for Cutting, Drawing, and Stamping Sardine Boxes in one operation. One Machine for Cutting and Forming three Covers in one operation. One Machine for Trimming the Sardine Boxes. One machine for Beading the same.

BROWN AND SHARPE MANUFACTURING CO., Providence, R. I.

Machine Tools; Universal and Plain Milling Machines; Grinding, Screw, and Tapping Machines; Screw Finishing and Polishing Machines; Cutters, for Gear Wheels and Taps, Reamers, Twist Drills, &c.

DE LAMATER (C. H.) AND CO., New York City.

D. L. Kennedy's Patent Concentrated Power Shearing and Punching Machines.

DEVENS, HENRY, Brattleboro', Vt.

Automatic Screw-Making Machine.

FLANDERS, L. B., Philadelphia.

Rotary Valve-seat Planing Machine.

MORSE TWIST, DRILL AND MACHINE CO., New Bedford, Mass.

The "Morse" Patent Twist Drill and other Machinists' Tools.

212 UNITED STATES EXHIBITORS AT THE

NORTHAMPTON EMERY WHEEL CO., Leeds, Mass.
Patent Solid Emery Wheels, and Emery Wheel Machinery.

PANCOAST AND MAULE, Philadelphia.
"Acme" Patent Gas-pipe Cutter.

SLOAN, THOMAS J., New York City.
Automatic Machine for making Wood Screws.

STEPHENS PATENT VISE CO., New York City.
Vises and Attachments, and Planer Chucks.

WHITON, D. E., West Stafford, Conn.
Lathe Chucks, Gear Cutters, Centring Machines.

WILEY AND RUSSELL MANUFACTURING CO., Greenfield, Mass.
Screw Plates, Bolt Cutting Machines, Friction Pulleys, Drilling Machines, Tire Upsetters, &c.

Class 56.—Apparatus and Processes used in Spinning and Rope Making.

ELLIOTT, MRS. S. A., Oxford, N. C.
Silk Reel, for use in Factories and in the Household.

Class 57.—Apparatus and Processes used in Weaving.

REED, JOHN VAN D., New York City.
Circular Loom for Weaving Multiply Fabrics.
See also Class 54.

TILT (B. B.) AND SON, Paterson, N. J.
Jacquard Power Silk Loom.

Class 58.—Apparatus and Processes for Sewing and for Making up Clothing.

AMERICAN BUTTON-HOLE, OVERSEAMING AND SEWING MACHINE CO., Philadelphia.
Sewing Machines, with Self-Threading Shuttles, for Button-Hole, Overseaming, and Plain Work.

GOODYEAR, HENRY B., New York City.
Machines, for Making Boots and Shoes.

JAMISON (S. W.) BOOT AND SHOE CRIMPING MACHINE CO., New York City.
Machines for Crimping Leather.

MASON, A., New York City.
Machines for Making Embroidery on Cloth and other Fabrics.
See also Class 54.

PHILLIPS (M. V.) AND CO., Providence, R. I.
Fringing Machine.

VICTOR SEWING MACHINE CO., Middleton, Conn.
Drill Chucks and Micrometer Callipers.

WARDWELL MANUFACTURING CO., St. Louis, Mo.
Two-Spool Lock-Stitch Sewing Machines.

WHEELER AND WILSON MANUFACTURING CO., New York City. Manufactory Bridgeport, Conn.
Sewing Machines for general use.
See also Classes 7, 36, 44, 54, and 61.

Class 59.—Apparatus and Processes used in the Manufacture of Furniture and Objects for Dwellings.

DAVIS LEVEL AND TOOL CO., Springfield, Mass.
Levels.

FAY (J. A.) AND CO., Cincinnati, Ohio.
Machines for reduction of Lumber and manufacture of Furniture. A collection of seventeen machines, for cutting and manufacturing wood into shapes for house-building, furniture, waggon and carriage work, &c.

GREGG, WM. L., Philadelphia.
Brick Making Machine (Triple Pressure), and specimen Bricks.

**214 UNITED STATES EXHIBITORS AT THE
KNAPP DOVETAILING MACHINE CO., Northampton,
Mass.**

Machine for Dovetailing Cabinet and other Woodwork.

**OSBORNE (C. S.) AND CO., Newark, N. J.
Saddlers' and Harness Makers' Tools.**

**ROGERS (C. B.) AND CO., New York City.
Wood Working Machinery. Band and Scroll Saws.
Planer.**

**RUSSELL AND ERWIN MANUFACTURING CO., New
Britain, Conn.**

**Wood Working Tools, Augers, Bits, Chisels, Gouges,
Screwdrivers, &c.**

See also Classes 11, 25, 43, and 66.

**STANLEY RULE AND LEVEL CO., New Britain, Conn.
Carpenters' Tools.**

See also Class 15.

**TRUMP BROTHERS, Wilmington, Del.
Foot Power Scroll Saws, and Specimens of Work made
with them.**

**Class 6o.—Apparatus and Processes used in
Paper-making, Dyeing, and Printing.**

**BRUCE (GEORGE), SON AND CO., New York City.
Specimen Book of Printing Types.**

**COLLINS (SHELDON) AND CO., New York City.
Black Ink.**

**CONNERS (JAMES) SONS, New York City.
One Complete outfit of Plain and Ornamental Types,
Borders, Rules, &c.**

**DAUGHADAY (J. W.) AND CO., Philadelphia.
Job Printing Presses, Hand and Foot Power adapted to
every class of fine job work, and general mercantile
printing.**

FARMER, LITTLE AND CO., New York.

Script Types, the Capital Letters of which form complete
Upper Case Fonts respectively, for three styles of
Lower Case Letters. Also, Fonts of other Modern
Script faces.

GALLY, MERRITT, New York City.

Power Printing and Embossing Presses.

HOYT, A. C., New York City.

Specimens of Twenty-two different Grades and Colours
of Printing Inks, specially adapted for the finest class
productions.

LOBDELL CAR WHEEL CO., Wilmington, Del.

Cast Chilled Iron Car Wheels.

See also Class 43.

MACKELLAR, SMITHS AND JORDAN, Philadelphia.

1. Specimen Book of Printing Types, &c. 2. Types,
Borders, and Rules.

MECHANICAL PRINTER'S QUOINS (BENJ. F. ALLEN),

Boston, Mass.

A noiseless and effective device for use in "locking up"
Printers' Formes, making changes on press for colours
or register without disturbing the correct position of
Forme.

PACKER, CHARLES W., Philadelphia.

Paper Box Manufacturers, Machines for oval cutting,
circular cutting, and for cutting straight sides with
semicircular ends.

See also Class 52.

PAGE (W. H.) WOOD TYPE CO., Norwich, Conn.

Specimens of Wood Printing Type, and Printing from
the same.

VANDERBURGH, WELLS AND CO, New York City.

Specimen Fonts of English and German faces of Wood
Type, Wooden Rulers, Corners, Logotypes, Indexes,
&c.; Specimen Book of Borders, Types, &c.; also one

216 UNITED STATES EXHIBITORS AT THE

Black Walnut 36-case Cabinet; one 16-case Full Galley Top Cabinet; one 20-case $\frac{3}{4}$ -Flap Top Cabinet; one 28-case "Eagle" Stand.

Class 61.—Machines, Instruments, and Processes used in Various Works.

ADAMS AND TAGGART, Watertown, N. Y.
Machines for Making Paper Bags.

BAILEY WRINGING MACHINE CO., New York City.
Clothes Wringers for Household and Manufacturing Purposes.

SHERWOOD, PETER M., New York City.
Automatic Bottling, Wiring, Capping, and Washing Machines; Measuring Funnel, Filtering Machines, "Water Bath" Boiler, Pill Filling and Counting Machines, Automatic Powder Filling Machine, Canoe Pulverizing Mortar, Anti-breakage Rubber Mallet, Heat-saving Grate, &c.

TYPE WRITER COMPANY, New York City.
Six "Type Writers," used for printing Correspondence.
WHEELER AND WILSON MANUFACTURING CO.,
New York City. Manufactory, Bridgeport, Conn.
Machine for Sewing Books.
See also Classes 7, 36, 44, 54, and 58.

Class 62.—Carriages and Wheelwright's Work.

ALLEN (R. H.) AND CO., New York City.
Warehouse Trucks, furnished for use of Commission.

BREWSTER AND CO., New York City.
Pleasure Carriages, Park Drag, and a Racing Sulky, manufactured from light American Hickory Wood.

CORTLAND WAGGON MANUFACTURING CO., Cortland, New York City.
Platform Spring Waggons, for Pleasure or Business Use.

DAVIS (JOHN G.) AND SON, Philadelphia.

Wheel Stock: Spokes, Rims, and Plough Handles.

HOOPES BROS. AND DARLINGTON, West Chester, Pa.

Wheels, Spokes, Hubs, Felloes, &c.

HOTCHKISS (GREY C.), FIELD AND CO., New York City.

Wood-work for Carriages, Waggons, &c. Tool-handles
and other products of American Wood.

IVERS, F., Cambridge, Mass.

Two Buggies.

JACOBS (S. W.) AND SON, Philadelphia.

Two Carriages.

JURY, F. HERMAN, New York City.

Two Folding Children's Carriages.

MOLINE WAGGON COMPANY, Moline, Ill.

One Farm Waggon.

NEW HAVEN WHEEL CO., New Haven, Conn.

Carriage, Cart, Waggon and Truck Wheels, and Wheel
Materials of American Woods, for Home use and for
Export.

RUBBER CUSHIONED AXLE CO., New York City.

Axles and Wheels.

RUBBER STEP MANUFACTURING CO., Boston, Mass.

Rubber-covered Carriage and Car Steps.

SCHUTTLER, PETER, Chicago, Ill.

Farm, Freight, and Plantation Waggons.

SEIDLE, F., Mechanicsburg, Pa.

Finished Wheels, Spokes, Hubs, Felloes, Shafts, and
Poles.

STUDEBACER BROS.' MANUFACTURING CO., South

Bend, Ind.

Waggons for Farm, Pleasure, and General Usage.

Class 63.—Harness and Saddlery.

ALBRIGHT, ANDREW, Newark, N. J.

Rubber-coated Harness, and Carriage Trimmings ; a metal core, covered with a coating of hard India-rubber, a tough, elastic composition ; impervious to acids, water, and atmosphere, will not tarnish, and protects the leather from iron rust, &c.

HADRICH (H. G.), AND SONS, Philadelphia.

Harness and Saddlery in general.

See also Class 47.

LIGHTHOUSE, J. C., Rochester, N. Y.

Horse Collars.

Class 64.—Railway Apparatus.

BARNUM, RICHARDSON AND CO., Lime Rock, Conn.

Car Wheels.

See also Class 43.

BRILL, J. G., Philadelphia.

Street Railway Car.

DUDLEY, P. H., New York City.

Diagrams, mounted on Rolls, showing power required to move railway trains.

FAIRBANKS (E. AND T.) AND CO., St. Johnsbury, Vt.

Railway Track Scales.

See also Classes 6, 10, 15, 50, 54, and 76.

HOWE SCALE CO., Rutland, Vt.

Weighing Apparatus for Railroads.

See also Classes 6, 10, 50, 52, 54, 68, and 76.

NATIONAL CAR SPRING CO., New York City.

Railway Car Springs.

PHILADELPHIA AND READING RAILROAD CO., Philadelphia.

American Locomotive, adopted for the use of Anthracite Coal.

GENERAL DESCRIPTION.—Approximate weight of Engine, 85,792 lbs.; approximate weight of Tank empty, 22,200 lbs.; Diameter of Drivers 54 inches, Journals 6 $\frac{1}{8}$ inches; Life of Steel Tire 175,000 miles; Life of Cast-iron Tire 27,000 miles; Life of Truckwheel 50,000 miles; Diameter of Truckwheel 30 inches; Side rod Brasses run 30,000 miles; Cylinders 18 \times 24 inches; Roller Valves (Bristol's Patent) 30,000 miles, Lap $\frac{1}{8}$ inch, Lead 1-16 inch, Full Throw 4 $\frac{3}{4}$ inches; Steam Pipe in boiler 4 inches, S. B. 4 $\frac{3}{4}$; Exhaust 4 to 5 inches; Boiler 46 inches Diameter, 160 Flues 2 inches Diameter, 10 feet 2 inches long; Boiler largest Diameter 54 inches; Heating surface in Flues 850 square feet; Life of Iron Flues 128,000 miles; Total Heating Surface 967 square feet; Fire Box, inner side sheets $\frac{1}{4}$ inch thick, good for 129,000 miles; Crown Sheet Iron 5-16 inches, outside $\frac{3}{8}$ inches; Water Grate Bars 2 inches outside, 1 $\frac{1}{2}$ inside, 2 $\frac{1}{8}$ clearance, 4 $\frac{1}{2}$ fall; will last as long as fire box; Grate Area 64 square feet; Fire box 8 $\frac{1}{2}$ \times 7 $\frac{1}{2}$ feet; Boiler Iron $\frac{3}{8}$ and $\frac{1}{2}$ inches double riveted; Water Space 3 $\frac{1}{2}$ inches; Smoke Box 34 inches long from flue sheet, Stack 20 $\frac{1}{2}$ inches inside; Spark Arrester Corrugated Iron $\frac{1}{8}$ inch thick at bottom, 1-16 at top; Pump 3 $\frac{1}{2}$ \times 11 inches; Grate bars 3-16 and 9-16 inches space; 168 bars.

PULLMAN PALACE CAR CO., Chicago, Ill.

One Model Palace Sleeping Car; One full-sized Palace Sleeping Car.

STEPHENSON (JOHN) CO., New York City.

Three Street Railway Cars.

WESTINGHOUSE AIR-BRAKE CO., Pittsburgh, Pa.

Automatic Air-Brakes for Railroad Cars. In use in the United States, England, France, Belgium, Germany, and other countries and colonies.

WHITNEY (A.) AND SONS, Philadelphia.

Car Wheels.

See also Class 43.

Class 65.—Telegraphic Apparatus and Processes.

COSTON, MARTHA J., Washington, D. C.

Coston's Night Signals.

EDISON, THOS. A., Menlo Park, N. J.

Phonograph, Quadruplex Electric Pen, Speaking Telephone, Musical Telephone, Pressure Relay, and Electromotograph.

GRAY, ELISHA, Chicago, Ill.

Apparatus for transmitting Musical and other Sounds, by Telegraph, including the Multiple Acoustic Telegraph, Way Duplex Telegraph, the Musical Telephone, and the Speaking Telephone.

Class 66.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

AMERICAN SOCIETY OF CIVIL ENGINEERS, New York City.

Plans and Models of Engineering: Works Illustrative of Civil Engineering in the United States.

BOWER, B. P., Cleveland, Ohio.

Bower's Sewer Gas Trap: a protection against the escape of Sewer Gas, Back-water, &c.

DAVIS, J. W., Washington, D. C.

The Davis Portable Elevating Telescopic Signal Tower, mounted on wheels, for army use.

GOODYEAR, HARRY, New York City.

The Goodyear Metallic Shingle.

HAYES, GEORGE, New York City.

Model of Windows, showing perforated Metallic Window Blinds and Ventilating Skylights.

HERRING, FARRELL AND SHERMAN, New York City.

Fire and Burglar Proof Safes, for exhibition and for use of the Commission.

JENKINS (W. H.) AND SON, New York City.
Doors and Sashes.

McEVOY AND GAYTON, Cleveland, Ohio.
Bower, Sewer Gas Trap, for exhibition and for use of the Commission.

MEYERS, A. G., New York City.
Water Closets, Wash Basins, and Urinals.

OLMSTEAD, F. L., New York City.
Landscape Drawings.

PENNYPACKER AND BRO., Philadelphia.
Doors, Sash, Blinds, and Shutters.

RUSSELL AND IRWIN MANUFACTURING CO., New Britain, Conn.
Door, Cabinet, and Padlocks, and Builders' Hardware.
See also Classes 11, 25, 43, and 59.

Class 67.—Apparatus for Navigation and Life Saving.

BROWN, A. AND F., New York City.
Siren, with Fog Trumpet attached.

DAVIS, Wm. J., Philadelphia.
"Reliance Anchor," non-fouling, and self-canting.

GUTTA PERCHA RUBBER MANUFACTURING CO.,
New York City.
Carbolized Rubber Hose, as used in connection with Fire Engines, or for general use.

KAHNWEILER, DAVID, New York City.
"Never-Sink Cork Jacket."

LA FRANCE MANUFACTURING CO., Elmira, N. Y.
Rotary Steam Fire Engine and Hose Cart.

PAGE, E. W., New York City.
Boat Oars.

ROSETTI, FRANCISCO, New York City.
Rowlocks for Boats.

Class 68.—Materials and Apparatus for Military Purposes.

GATLING GUN CO., Hartford, Conn.

- 1 Gatling Gun, mounted on Tripod.
- 1 Ten Barrel 1-inch Gatling Gun.
- 1 Medium-sized Gatling Gun on Field Carriage.

HOWE SCALE CO., Rutland, Vt.

Weighing Machine for Military Transport Service.
See also Classes 6, 10, 50, 52, 54, 64, and 76.

PRATT, WHITNEY AND CO., Hartford, Conn.
The Gardner Machine Gun.

PROVIDENCE TOOL CO., Providence, R. I.

Breech-Loading Military Rifles, with their various parts,
from a rough to a finished state.
See also Class 40.

REMINGTON (E.) AND SONS, Ilion, N. Y.
Military Breech-Loading and Magazine Rifles, and Metallic Cartridges.
See also Class 40.

SHARP'S RIFLE CO., Bridgeport, Conn.
Breech-Loading Military Rifles.
See also Class 40.

UNION METALLIC CARTRIDGE CO., Bridgeport, Conn.
Cartridges (Metallic).

UNITED STATES REGULATION FIREARMS CO., New York City.
Springfield Muskets.



Group 7.—Alimentary Products.

Class 69.—Cereals, Farinaceous Products, and Products Derived from them.



DAIR, Mrs. A. P., Muscogee, Indian Territory.
Sugar Corn.



ANDRES, S. R., Philadelphia.
Beans, Prepared as Food. Bean Flour.

AUGUR, P. M., Middlefield, Conn.
Corn and Grain.

BATTLES, H. A., New Orleans, La.
Rice.

BENNETT, MOORE AND CO., Indianapolis, Ind.
Yellow and White Corn.

BIDWELL, JOHN, Chico, Cal.
Wheat: weighing 63—68 pounds per bushel.

BLACKMAR AND ALLERTON, Newark, N. Y.
Clover Seed, White and Red Winter Wheat, and Beans.
See also Classes 47 and 73.

BRADLEY, G. W., Hamden, Conn.
Ccrn.

CANARY, J. W., Sulivan, Ind.
White Wheat.

CEREALS MANUFACTURING CO., New York City.
Prepared Cereals.

CHANDLER, JOHN R., Vincennes, Ind.
White Corn.

CLARKE, E. B., Middlefield, Conn.
Agricultural Products.

CLOSSER (J. A.) AND CO., Indianapolis, Ind.
Millet Seed, Corn, Wheat, and products manufactured
from them.

COLEMAN, W. H., Concord, N. H.
Wheat and Flour.

COLLINS, GEO. P., Orange County, N. C.
Seeds.

COMPTON, D. A., Hawley.
Corn in the Ear.

CONNECTICUT BOARD OF AGRICULTURE, Hartford,
Conn. P. M. Augur, Secretary of State Board of
Agriculture.

Oats, Corn, Rye, Beans, &c. Case of eighteen Ears of
Corn, the product of three grains.

See also Class 46.

CORBETT, G. W., Penden Co., N. C.
Corn.

CORBETT, J. R., Bladen Co., N. C.
Corn.

CORPENNING, A. J., Caldwell, N. C.
Grains.
See also Classes 74 and 75.

ELLCOTE, J. R., Rochester, Ind.
Red Wheat.

EVANS (J. P.) AND CO., Indianapolis, Ind.
Linseed Oil and Meal.
See also Class 47.

FICKLEN (J. B.) AND CO., Fredericksburg, Va.
Flour, Corn, and Corn Meal, Wheat and Maize.

FOERSTER, J., New Orleans, La.
Rice.

FOREMAN, JOHN A., Muscogee, Indian Terr.
Field and Sugar Corn, Corn Meal, Hominy and Grits.

GAFF, RUSH AND THOMAS, Columbus, Ind.
Hominy, Grits, Pearl Meal, Corn Flour, Feed Meal, Corn
Meal, Yellow Corn.

GALLUP, CLARK AND CO., Indianapolis, Ind.
Barley and Oats.

GLEN COVE STARCH MANUFACTURING CO., Glen
Cove, N. Y.
Starch and Maizena.

GOLD, T. S., West Cornwall, Conn.
Buckwheat.

GREGG, HENRY, Marion, Ind.
White Rye.

HART, MRS. N., Ninety-six, S. C.
Wreath of Seeds.

HAYES, M., Dover, Delaware.
Cereals.

HEPPINGER, SAML., Smith, Ind.
Buckwheat.

HERON, ALEX., Indianapolis, Ind.
Indian Corn on Stalk.

HERON, WM., Connersville, Ind.
Millet.

HOLLER, A. J., Catawba Co., N. C.
Wheat, Corn, and Buckwheat.

INDIANAPOLIS BOARD OF TRADE, Indianapolis, Ind.
Yellow and White Corn (in ear and shelled), Barley
Oats, Millet, White Rye, Wheat, White Oats, Clover
Seed, Grass Seed, Pop Corn, Flax Seed, Linseed Meal,
Hominy, coarse and fine Grits, Pearl Meal, Corn

Flour, Feed and Corn Meal, Indian Corn on stalk,
sheaves of Millet, White Wheat, Barley, Rye, Red
Wheat, Buckwheat, Corn Starch, &c.

See also Class 46.

JENKINS (F. W.) AND BRO., New York City.
Flour.

KENNEDY, W. M., Duplin Co., N. C.
Sugar Cane.

KILLEBREN, J. B., Nashville, Tenn.
Agricultural Products.

KRESKEN, Miss H. A., Cincinnati, Ohio.
Dried Flowers, &c.; Fruit, Tree, and Vegetable Seeds.

LEAMNIG, J. S., Wilmington, Ohio.
Corn.

LOUISIANA OIL CO., New Orleans, La.
Cotton Seed, Cake, and Meal.
See also Class 46.

McKINNON, D. D., Montgomery Co., N. C.
Sorghum Seed.

MEARES, E., Bladen Co., N. C.
Corn.

MOREMAN, ALONZO, Brandenburg, Ky.
Corn.
See also Class 74.

NAVASSA GUANO CO., New Hanover Co., N. C.
Rice.

OLDHAM, ALEX., Wilmington, N. C.
Pearl Hominy.

OREGON STATE COMMISSION, Portland, Oregon.
Wheat in bunches; Barley, Oats, Flax, Timothy and
Orchard Grass; Wheat yielding 60 bushels per acre;
Oats, 90 bushels; Oats, yielding 70 bushels, and
weighing 50 lbs. per bushel; Barley, yielding 90
bushels per acre.

See also Classes 43, 44, 46, 47, and 73.

- OUTCALT, J., Spottswood, N. J.
Corn Meal and Hominy.
- PEIL (W. F.) AND CO., Indianapolis, Ind.
Refined Corn Starch.
- PORTER AND MOWBRAY, Winona, Minn.
Flour.
- ROGERS, C. B., Philadelphia.
Diamond Wheat.
- ROSS, ROSALIE, Muscogee, Indian Terr.
Hominy.
- SCHUMACHER, FERDINAND, Akron, Ohio.
Various Products from Cereals.
- SCOTT (WILLIAM) AND CO., Indianapolis, Ind.
White and Yellow Corn, White Rye.
- SOCOLA, ANGELO, New Orleans, La.
Rice.
- STELTZ, J. GEO., Indianapolis, Ind.
Clover, Millet, Grass Seed and Pop Corn.
- THURBER (H. K. AND F. B.) AND CO., New York City.
Oats and Oat Meal, Rye and Rye Flour, Hominy, Corn,
Meal, Barley, Wheat, and Wheat cracked, and Flour.
See also Classes 45, 71, 72, 73, and 74.
- UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C. W. G. Le Duc, Commissioner.
American Grains, and their products.
See also Classes 44, 46, 47, 51, 73, and 83.
- WEBSTER AND DILLINGHAM, New Orleans, La.
Flour.
- WEST VIRGINIA, STATE OF.
Grain and Corn.
See also Classes 43, 44, and 46.
- WHITE, DUNCAN, Guilford Co., N. C.
Wheat.
- WOODWARD AND DWIGHT, St. Louis, Mo.
Flour.

Class 70.—Bread and Pastry.

EXTON, ADAM AND CO., Trenton, N. J.
Unfermented Crackers and Biscuits.

LARRABEE (E. J.) AND CO., Albany, N. Y.
Plain and Fancy Biscuits and Cakes (400 varieties).

WILSON (WALTER J.) AND CO., Philadelphia.
Crackers, Cakes and Biscuits.

Class 71.—Fatty Substances used as Food.
Milk and Eggs.

AMERICAN MANUFACTURING AND EXPORTING CO.,
Philadelphia.
Oleomargerine, or Butter manufactured from Fatty Substances, such as Tallow, &c.

CURTIS AND SWITZER, Chicago, Ill.
Creamery Butter.

FAIRBANKS (N. K.) AND CO., Chicago, Ill.
Refined and Leaf Lard.

HALLER, ELLA, Philadelphia.
Lard in Jars.
See also Classes 27 and 73.

McFARLANE (V. W.) AND CO., New York City.
Refined Lard.

NAPHEY (G. C.) AND SON, Philadelphia.
Lard.

NEWMAN AND HAWKINS, Elgin, Ill.
Creamery Butter.

TEMISON AND SON, Philadelphia.
Butter.

THURBER (H. K. AND F. B.) AND CO., New York City.
Edible Cotton Seed Oil.
See also Classes 46, 69, 72, 73, and 74.

UNITED STATES EGG DESICCATING CO., New York.
Crystallized Eggs.

WILCOX (W. J.) AND CO., New York City.

Lards, Oils, and Stearine. Capacity of works per year
450,000 tierces of lard, 28,000 tierces of stearine,
28,000 barrels of oil.

Class 72.—Meat and Fish.

BOOTH, W., Portland, Oregon.
Canned Salmon.

BURNHAM AND MORRILL, Portland, Me.
Canned Meats, Salmon, Lobsters, Clams.
See also Class 73.

COOK (J.) AND CO., Portland, Oregon.
Canned Salmon.

ERIE PRESERVING CO., Buffalo and New York.
Canned Goods. Jams and Jellies in Tin and Glass.
Sausage Meat in Tin.
See also Class 73.

FICK AND CHASE, Baltimore, Md.
Pickled Oysters.

GROCERS' PACKING CO., Boston, Mass.
Canned Salt Fish and Vegetables.
See also Class 73.

LIBBY, McNEAL AND LIBBY, Chicago, Ill.
Canned Salmon.

McMURRAY, LOUS AND CO., Baltimore, Md.
Oysters in Cans.

RICHARDSON AND ROBBINS, Dover, Del.
Canned Tongues, Game, Meats, and Preserved Fruits.
See also Class 73.

ST. LOUIS BEEF CANNING CO., St. Louis, Mo.
Canned Meats.

- 230 *UNITED STATES EXHIBITORS AT THE*
THURBER (H. K. AND F. B.) AND CO., New York City.
Canned Meats and Fish.
See also Classes 46, 69, 71, 73, and 74.
TRIGG, GEO. P., New York City.
Boneless Codfish.
VALENTINE, M. S., Richmond, Va.
Meat Juices.
WILSON PACKING CO., Chicago, Ill.
Canned Meats.
WRIGHTS (JOSHUA) AND SONS, Philadelphia.
Minced Meats in Cans.

Class 73.—Vegetables and Fruits.

- ADAMS, R. A., Johnson County, N. C.**
Cheefas—Ground-nuts.
ANDERSON, A., Camden, N. J.
Tomatoes in Glass Jars.
BANTA, E., Milford, Del.
Dried Fruits.
BLACKMAR AND ALLERTON, Newark, N. J.
Dried Apples.
See also Classes 47 and 69.
BLOWERS, R. B., Woodlands, Cal.
Raisins.
BONZANO, HUBERT, New Orleans, La.
Pecan Nuts.
BURNHAM AND MORRILL, Portland, Me.
Canned Vegetables.
See also Class 72.
DEITZ, GEO. A., Sacramento, Cal.
Raisins.
DUNBAR (G. W.) AND SONS, New Orleans, La.
Canned Goods ; Syrups in Cans.
See also Class 74.

DURBAN, CHAS. L., Mesillwally, Cal.
Raisins.

ERIC PRESERVING CO., Buffalo, and New York City.
Canned Fruits and Vegetables.
See also Class 72.

GORE AND GORE, Wilmington, N. C.
Peanuts.

GROCERS' PACKING CO., Boston, Mass.
Canned Vegetables.
See also Class 72.

HALLER, ELLA, Philadelphia.
Preserved Fruits in Jars.
See also Classes 27 and 71.

IOWA STATE HORTICULTURAL SOCIETY, Desmoines,
Iowa.
Wax Models of Fruits.

LEWIS (W. K.) AND BRO., Boston, Mass.
Canned and Preserved Fruits.

MCKENNY, E. F. AND F. L., Marengo, Ill.
Preserved Fruits.

NEW YORK DESICCATING CO., N. Y.
Desiccated Cocoa.

OREGON STATE COMMISSION, Portland, Oregon.
Vegetable Seeds.
See also Classes 43, 44, 46, 47, and 69.

PERRY, F. H., Providence, R. I.
Preserved Fruits.

PLUMMER, M., Portland, Oregon.
Dried Fruits and Vegetables.

REYNOLDS, A. J., Chicago, Ill.
Fruit Evaporating Machine, and Evaporated Fruit.
See also Class 76.

RICHARDSON AND ROBBINS, Dover, Del.
Preserved Fruits.
See also Class 72.

SCHIMMUT (J. O.) AND CO., Philadelphia.

Fruit Butter.

THURBER (H. K. AND F. B.) AND CO., New York City.

Canned Fruits and Vegetables.

See also Classes 46, 69, 71, 72, and 74.

UNITED STATES DEPARTMENT OF AGRICULTURE,

Washington, D. C. W. G. Le Duc, Commissioner.

Plaster Casts of Fruits and Vegetables of the U. S.

See also Classes 44, 46, 47, 51, 69, and 83.

WING (D.) AND BRO., Rochester, N. Y.

Dried Fruits and Vegetables.

WORTH, Mrs. J. I., Fayetteville, N. C.

Preserved Fruits.

**Class 74.—Condiments and Stimulants, Sugar
and Confectionery.**

AMERICAN GRAPE SUGAR CO., Buffalo, N. Y.

Sugar and Syrup, from Grapes.

AVERY, D. D., Iberia Parish, La.

Rock and Coarse Salt.

BAKER (WALTER) AND CO., Boston, Mass.

Chocolate and Cocoa.

BRAND (J. H.) AND CO., Louisville, Ky.

Mustard.

See also Class 46.

BRIERRE (T. H.) AND CO., New Orleans, La.

Sugar and Molasses.

CONGER AND KELLY, New Orleans, La.

Sugar.

CORPENNING, A. J., Caldwell, N. C.

Sorghum Syrup.

See also Classes 69 and 75.

DUNBAR (G. W.) AND SONS, New Orleans, La.

Syrup in Cans.

See also Class 73.

GAY (EDWARD J.) AND CO., New Orleans, La.

Sugar, Molasses, and Syrup.

GAY, STEPHEN, New Orleans, La.

Medicated Syrup.

GOODWIN, P. M., New Orleans, La.

Eureka Yeast Powder.

KNIGHT, HAROLD H., Zanesfield, Ohio.

Maple Sugar.

LEEDS, PAUL B., New Orleans, La.

Salt.

McILHENNY, E., New Iberia Parish, La.

Tabasco Pepper Sauce.

MAILLARD, HENRY, New York City.

Chocolate and Confectionery.

Chocolate statues representing the four parts of the world, made by a new process, weighing 100 lbs. each. Five Medicis Vases made of solid Chocolate, and weighing 180 lbs. each. An album entitled "Voyage dans Ile des Plaisirs," containing 3,000 different styles of Bonbons and fancy Chocolate.

MOREMAN, ALONZO, Brandenburg, Ky.

Salt.

See also Class 69.

SCHEPP, LEOPOLD, New York City.

Desiccated Cocoanut.

THOMSON (A.) AND CO., New Orleans, La.

Sugar, Molasses, and Syrup.

THURBER (H. K. AND F. B.) AND CO., New York City.

Sugar, Glucose, and Syrups made from Maize (Corn)

Honey.

See also Classes 46, 69, 71, 72, and 73.

234 UNITED STATES EXHIBITORS AT THE

VINCENT, GEO. A., New Orleans, La.

Honey, Liquid and in Comb.

WALZ, ALPHONSE, New Orleans, La.

Bitters.

WHITMAN, STEPHEN F., Philadelphia.

Chocolate and Confections.

Class 75.—Fermented Drinks.

AMERICAN WINE CO., St. Louis, Mo.

Champagne.

ANHEUSER (E.) AND CO., BREWING ASSOCIATION,

St. Louis, Mo.

Lager Beer.

BARNEY, LEWIS T., Keokuk, Iowa.

Wines.

BERGNER AND ENGEL, Philadelphia.

Lager Beer, Pilsen Beer, and Bock Beer.

BEST (PHILIP) BREWING CO., Milwaukee, Wis.

Lager Beer, bottled for export.

BUSH (ISIDOR) AND CO., St. Louis, Mo.

Wines.

CLARK, GEORGE, New York City.

Bitters.

CLAUSEN (H.) AND SON, New York City.

Bottled Beer.

COPENNING, A. J., Caldwell, N. C.

Wines.

See also Classes 69 and 74.

FIEGENSPAN AND CO., New York City.

Lager Beer.

GARRETT (C. W.) AND CO., Halifax Co., N. C.

Wines.

GIBSONS (JOHN) SONS AND CO., Pittsburgh, Pa.
Whiskey.

GREEN, CICERO, Craven Co., N. C.
Whiskey.

GÜCKERHEIMER AND BROS., Pittsburgh, Pa.
Whiskey.

HINCKE, JULIUS. Egg Harbour, N. J.
Wines.

HOOPER, G. F., Sonoma, Cal.
Native Wines.

HORNE, H. R., Fayetteville, N. C.
Scupunong Wines.

KUNTZ, J. AND S. F., Morrisania, N. Y.
Lager Beer.

LEMP, W. J., St. Louis, Mo.
Bottled Beer.

MASSEY (Wm. C.) AND CO., Philadelphia.
Ale and Porter.

MONICTELLO WINE CO., Charlottesville, Va.
Wines.

POESCHEL AND SCHERER, Hermann, Mo.
Wines.

REDLICH MANUFACTURING CO., Chicago, Ill.
India Rubber Saturated Faucets, Corking Machines,
Plugs, Vents, Bungs, Mallets, Labels, &c.

RICKETTS, J. H., Newburg, N. Y.
Wines.

REUTER AND ALLEY, Boston, Mass.
Ales.

SHUFELDT, H. G., Chicago, Ill.
Whiskey. Grain used in Manufacture of Alcoholic Spirits,
Specimens of Materials from the Intermediate Stages
of the Process of Manufacture and Finished Product.

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UHRIG (Jos.) BREWING CO., St. Louis, Mo.
Lager Beer.

URBANA WINE CO., Hammondsport, N. Y.
Sparkling Wines.

VERGNOLE, Jos., New Orleans, La.
Cordials and Bitters.





Group 8.—Agriculture and Pisciculture.

Class 76.—Specimens of Farm Buildings and Agricultural Works.



ADRIANCE, PLATT AND CO., New York City.
One New Model "D" A. P. and Co. "Buckeye" Mower. One ditto with Manual Delivery. One A. P. and Co. "Buckeye" Combined Mower and Self-Raking Reaper.

One "Adriance" Self-Raking Single Reaper.

AMERICAN FENCE MANUFACTURING CO., New York City.

Fences: Wood and Wire Combined.

AULTMAN (C.) AND CO., Canton, Ohio.

Two Buckeye Mowing Machines. One Table Rake. Side Delivery Reaper and Mower Combined. One Harvester and Automatic Self-Binder Combined. One Rear Delivery Reaper and Mower Combined. One Agricultural Engine, 12-horse power.

BAY STATE RAKE CO., Winchendon, Mass.

Horse Hay Rake.

BICKFORD AND HUFFMAN, Macedon, N. Y.

Seed Drills, for sowing and Measuring all kinds of Grain and Grass Seeds.

CASE (J. I.) AND CO., Racine, Wis.

Harvesting, Threshing, and Cleaning Machines.

CHADBURN AND COLDWELL, Newburgh, N. Y.

Lawn Mowing Machines.

See also Class 52.

COATES (A. W.) AND CO., Alliance, Ohio.

Hay and Grain Rake; Lock Lever.

COLLINS AND CO., Hartford, Conn.

Gang Ploughs.

See also Class 43.

DAY, B. H., Underhill, Vt.

The Powell Broadcast Seed Sower and Grain Coverer.

DEDERICH (P. K.) AND CO., Albany, N. Y.

Hay Press, Horse Power, Bale Tie Machine.

DEERE AND CO., Moline, Ill.

Ploughs (Gang and Sulky).

DICKEY, A. P., Racine, Wis.

Fan for separating Grain and Chaff.

DODD, JOHN, Dayton, Ohio.

Horse Hay Rake, Hollingsworth's Patent.

EAGLE MOWING AND REAPING MACHINE CO.,

Albany, N. Y. Wm. Anson Wood, President.

Mowers, Reapers, and Binders.

ECLIPSE WINDMILL (A. J. COCORAN), New York City.

Improved Solid Wheel, Self-Regulating Windmill.

FAIRBANKS (E. AND F.) AND CO., St. Johnsbury, Vt.

Scales for Weighing Cattle and for various Farm Pur-
poses.

See also Classes 6, 10, 15, 50, 54, and 64.

FARMERS' FRIEND MANUFACTURING CO., Dayton,

Ohio.

Grain Drills.

FARQUHAR, A. B., York, Pa.

Threshing Machine, and Horse Power.

GALE MANUFACTURING CO., Albion, Mich.

Hay Rake, and Chilled Iron Plough.

GRAHAM, EMLEN AND PASSMORE, Philadelphia.
Philadelphia Lawn Mower.

HILLS' ARCHIMEDEAN LAWN MOWER CO., Hartford, Conn.
Lawn Mowers.

HOWE SCALE CO., Rutland, Vt.
Weighing Apparatus for Farms and Plantations.
See Classes 6, 10, 50, 52, 54, 64, and 68.

JOHNSTON HARVESTER CO., Brockport, N. Y.
Mowers and Reapers, Combined Machines, and Grain Binder.

LLOYD, SUPPLE, AND WALTON, Philadelphia.
Lawn Mowing Machine.

McCORMICK, C. H. AND L. J., Chicago, Ill.
Mowing, Reaping, and Binding Machines.

MARKT AND CO., New York City.
Horse Rakes, Forks, Shovels, and Hoes, &c.

OSBORNE (D. M.) MANUFACTURING CO., Auburn, N. Y.
Mowing and Reaping Machines.

RANDOLPH, THEO. F., Morristown, N. J.
Ditching Machine, worked by Horse-power, and used for making Excavations and Ditches.

REYNOLDS (A. J.), Chicago, Ill.
Evaporated Fruits.
See also Class 73.

SPEER (ALEX.) AND SONS, Pittsburgh, Pa.
Ploughs and Cultivators.

STODDARD (JNO. W.) AND CO., Dayton, Ohio.
Self-operating Hay Rake, Grain Drill, and Broadcast Seeder.

STRATTON AND CULLUM, Meadville, Pa.
Hay Loader.

TAYLOR, B. C., Dayton, Ohio.
Hay Rakes.

TAYLOR MANUFACTURING CO., Westminster, Md.

1 Empire Threshing Machine.

See also Class 54.

THAYER, J. S., Albany, N. Y.

Mowing, Raking, Reaping, Harvesting, and Binding
Machines.

UNITED STATES WINDMILL, ENGINE, AND PUMP
CO., Batavia, Ill.

2 Windmills.

UNIVERSAL PEACE UNION, Philadelphia.

Peace Plough, made from Swords used in War.

WARDER, MITCHELL AND CO., Springfield, Ohio.

Mowing and Reaping Machines, Single and Combined.

WOOD, WALTER A., Hoosick Falls, N. Y.

Harvester and Self-Binder, Self-rake Controllable
Reapers, 1 and 2-horse Grass Mowing Machines, 1
and 2-horse Combined Mowing and Reaping Ma-
chines.

WOOD, WILLIAM ANSON, Albany, N. Y.

Mowing and Reaping Machine, manufactured by the
Eagle Mowing and Reaping Machine Co.

WOODWARD, W. W., Cartersville P. O. Barton County, Ga.

Cotton Seed Sower.

Class 83.—Useful Insects and Noxious Insects.

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C. W. G. Le Duc, Commissioner.

Insects injurious to the Principal Crops of the Country.

See also Classes 44, 46, 47, 51, 69, and 73.

Class 89.—Seeds and Saplings of Forest Trees.

MEEHAN, Thos., Germantown, Pa.

Seeds of Forest Trees.



ART GALLERY

D. MAITLAND ARMSTRONG, *Superintendent*



The selection of Paintings for Exhibition was left by the
Commissioner-General to Committees composed
of the following named gentlemen

IN NEW YORK

E. D. MORGAN	J. TAYLOR JOHNSTON
J. W. PINCHOT	ROBERT GORDON
N. M. BECKWITH	H. G. MARQUAND
PARKE GODWIN	JOHN H. SHERWOOD
RoBERT G. DUN	CHARLES S. SMITH

IN PARIS

AUGUSTUS SAINT-GAUDENS
D. MAITLAND ARMSTRONG
C. E. DETMOLD





ALPHABETICAL CATALOGUE
OF THE
UNITED STATES EXHIBITORS IN THE
ART GALLERY OF THE UNIVERSAL
EXPOSITION OF 1878
AT PARIS



A. ANDERSON, *New York City.*
1.—Palm Sunday.

HENRY BACON, *Paris.*
2.—Land! Land!

W. H. BEARD, *New York City.*
3.—The Wreckers.

J. CARROLL BECKWITH, *Paris.*
4.—Portrait.
5.—The Falconer.

A. F. BELLOWS, *New York City.*
6.—A New England Village School.

H. R. BLOOMER, *Paris.*
7.—Old Bridge at Grez.

EUGENE BENSON, *Rome.*

8.—Hasheish Smokers, Jerusalem. (Owner, S. R. Van Duzer.)

EDWARD D. BOIT, *Paris.*

9.—Beach of Villers, Normandy.

GEORGE H. BOUGHTON, *London.*

10.—Wouter von Twiller's First Court in New Amsterdam. (Owner, John H. Sherwood.)

F. A. BRIDGMAN, *Paris.*

11.—Funeral of a Mummy on the Nile. (Owner, J. G. Bennett.)

12.—Allah, Allah, Akbah.

J. B. BRISTOL, *New York City.*

13.—Lake Champlain, from Ferrisburgh, Vermont.

J. G. BROWN, *New York City.*

14.—St. Patrick's Day. (Owner, Mr. Hurlburt.)

15.—The Passing Show. (Owner, Denis Gale.)

W. GEDNEY BUNCE, *Paris.*

16.—Approach to Venice.

GEORGE B. BUTLER, JUN., *Capri, Italy.*

17.—A Cat. (Owner, H. E. Howland.)

18.—Dogs on the Campagna. (Owner, Richard Butler.)

MISS M. CASSATT, *Paris.*

19.—Head.

E. E. CHURCH, *Hudson, New York.*

20.—Morning in the Tropics. (Owner, Wm. E. Dodge, Jun.)

21.—The Parthenon. (Owner, Morris K. Jessup.)

CHARLES C. COLEMAN, *Rome.*

- 22.—Decorative Panel.
23.—Venice, Ancient and Modern.

SAMUEL COLMAN, *New York City.*

- 24.—Emigrant Train crossing a Ford. (Owner, L. C. Tiffany.)
25.—The Guadalquivir.

MRS. C. B. COMAN, *Paris.*

- 26.—Near Fontainebleau. (Owner, Rev. E. W. Hitchcock.)

W. P. W. DANA, *Paris.*

- 27.—The Shore at Dinard.
28.—Solitude.
29.—A Squall.

LOCKWOOD DEFOREST, *New York City.*

- 30.—The Pyramid of Sakkarah.

M. F. H. DE HAAS, *New York City.*

- 31.—Rapids above Niagara Falls.

F. DIELMAN, *New York City.*

- 32.—Patrician Lady of the 16th Century.

MISS S. P. B. DODSON, *Paris.*

- 33.—The Dance.

CHAS. E. DUBOIS, *Paris.*

- 34.—Morning in Venice.
35.—Autumn.
36.—View on the Hudson.

WYATT EATON, *New York City.*

- 37.—Harvesters at Rest.
38.—Reverie.

246 UNITED STATES EXHIBITORS AT THE

C. L. ELLIOTT (deceased).

39.—Portrait of A. W. Morgan. (Owner, E. D. Morgan.)

MONTAGUE FLAGG, Paris.

40.—The Finishing Touch. (Owner, W. G. Bunce.)

FRANK FOWLER, Paris.

41.—Young Bacchus.

WALTER GAY, Paris.

42.—Landscape.

MISS E. J. GARDNER, Paris.

43.—Flower Girl.

44.—Ruth and Naomi.

R. SWAIN GIFFORD, New York City.

45.—New England Cedars. (Owner, George C. Clark.)

SANFORD R. GIFFORD, New York City.

46.—Mount Renier. (Owner, Robert G. Dun.)

47.—Saint Georgio, Venice. (Owner, Richard Butler.)

WILLIAM GRAHAM, Rome, Italy.

48.—View in a California Cemetery.

S. J. GUY, New York City.

49.—Baby's Bed-time. (Owner, John H. Sherwood.)

50.—Learning the Gamut. (Owner, P. Vanvalkenburgh.)

51.—Portrait of C. L. Elliott. (Owner, John H. Sherwood.)

J. McL. HAMILTON, Philadelphia.

52.—Cerise.

JAMES M. HART, *New York City.*

53.—American Landscape, Indian Summer. (Owner, John H. Sherwood.)

54.—A Summer Memory of Berkshire. (Owner, E. D. Morgan.)

G. P. A. HEALY, *Paris.*

55.—Portrait of Mrs. Noyes. (Owner, Gen. E. F. Noyes.)

56.—Portrait of Lord Lyons.

E. L. HENRY, *New York City.*

57.—Off for the Races. (Owner, Fairman Rogers.)

WINSLOW HOMER, *New York City.*

58.—A Country School-room. (Owner, John H. Sherwood.)

59.—A Visit from the Old Mistress.

60.—Snapping the Whip. (Owner, John H. Sherwood.)

61.—Sunday Morning in Virginia.

T. HOVENDEN, *Finistère, France.*

62.—A Breton Interior.

A. C. HOWLAND, *New York City.*

63.—Ford's Glen. (Owner, George P. Wetmore.)

D. HUNTINGDON, *New York City.*

64.—Philosophy and Christian Art. (Owner, Robert Hoe, Jun.)

65.—Portrait. (Owner, R. Stuyvesant.)

GEO. INNESS, *New York City.*

66.—St. Peter's, Rome, from the Tiber.

67.—View near Medfield, Massachusetts.

J. B. IRVING (deceased).

68.—The Connoisseurs. (Owner, John H. Sherwood.)

248 UNITED STATES EXHIBITORS AT THE

EASTMAN JOHNSON, New York.

- 69.—The Corn Husking. (Owner, N. Sarony.)
70.—“What the Shell says.” (Owner, B. H. Field.)

W. BOLTON JONES, Paris.

- 71.—Return of the Cows, Brittany.

J. F. KENSETT (deceased).

- 72.—The White Mountains. (Owner, John H. Sherwood.)

JOHN LAFARGE, New York.

- 73.—Paradise Valley, Newport. (Owner, Miss Alice Hooper.)

GEO. C. LAMBDIN, Germantown, Philadelphia.

- 74.—Roses on a Wall.

T. LE CLEAR, New York City.

- 75.—Portrait of Parke Godwin. (Owner, Parke Godwin.)

WM. H. LIPPINCOTT, Paris.

- 76.—Portrait of Dr. G. D. Cochrane.
77.—Portrait of Dr. Nachmann.

CHESTER LOOMIS, Paris.

- 78.—A Poacher in the 15th Century.

E. H. MAY, Paris.

- 79.—Portrait of General Carroll Tevis.

GEO. W. MAYNARD, Paris.

- 80.—Portrait.

J. McENTEE, New York City.

- 81.—An Autumnal Idyl.
82.—The Falling Leaves. (Owner, George C. Cooper.)

C. H. MILLER, *New York City.*
83.—Oaks at Creedmoor, L. I.

EDWARD MORAN, *Paris.*
84.—Return of the Life-Boat.

H. H. MOORE, *New York City.*
85.—The Moorish Bazaar. (Owner, Chas. S. Smith.)

MISS M. B. ODENHEIMER, *Paris.*
86.—Marie.

B. C. PORTER, *Boston, Massachusetts.*
87.—Portrait of a Lady (Miss Howe).

ARTHUR QUARTLEY, *New York.*
88.—Morning Effect in New York Harbour. (Owner, John Taylor Johnston.)

E. REIN, *Paris.*
89.—Winter Evening in New England.

W. T. RICHARDS, *Newport, R. I.*
90.—In the Woods. (Owner, Robert G. Dun.)
91.—Landscape, Spring. (Owner, John H. Sherwood.)
92.—The Forest. (Owner, George Whitney.)

H. W. ROBBINS, *New York City.*
93.—The Harbour Islands, Lake George.

J. L. SARGENT, *Paris.*
94.—Portrait. (Owner, Miss W.)

W. A. SHADE, *Dusseldorf, Germany.*
95.—A Page.
96.—La Marguerite.
97.—My Daily Visitor.

250 *UNITED STATES EXHIBITORS AT THE*

WALTER SHIRLAW, *New York City.*

98.—Sheep-Shearing in the Bavarian Highlands.

LEWIS T. SHONBORN, *Paris.*

99.—Portrait.

A. WORDSWORTH THOMPSON, *New York City.*

100.—The School-House on the Hill.

L. C. TIFFANY, *New York City.*

101.—Duane Street, near William Street, New York.

MISS CLEMENTINA TOMPKINS, *Paris.*

102.—The Little Artist.

103.—Rosa la Fileuse.

S. W. VAN SCHAICK, *Florence, Italy.*

104.—Portrait. (Owner, W. E. Brackin.)

E. VEDDER, *Rome, Italy.*

105.—Cumean Sybil.

106.—The Young Marsyas.

107.—The Old Madonna. (Owner, E. D. Morgan.)

F. P. VINTON, *Paris.*

108.—Head.

109.—Head of a Neapolitan Boy.

CHAS. VOLKMAR, *Montigny, France.*

110.—Landscape with Cattle.

EDGAR M. WARD, *Paris.*

111.—The Sabot Maker.

112.—Venetian Water Carriers.

113.—The Washing in Brittany. (Owner, John H. Sherwood.)

MYRON WARD, *Paris.*

114.—Head.

J. ALDEN WEIR, *New York City.*
115.—A Breton Interior.

JOHN F. WEIR, *New Haven, Connecticut.*
116.—Forging the Shaft.

F. D. WILLIAMS, *Paris.*
117.—The Marne.

L. E. WILMARTH, *New York City.*
118.—Ingratitude. (Owner, John P. Jones.)

W. WHITTREDGE, *New York City.*
119.—Forest Brook. (Owner, Whitelaw Reid.)
120.—The Platte River. (Owner, Century Club.)

T. W. WOOD, *New York City.*
121.—The Contraband. (Owner, Chas. S. Smith.)
122.—The Recruit. (Same owner.)
123.—The Veteran. (Same owner.)

A. H. WYANT, *New York City.*
124.—A New England Landscape.

ROBERT WYLIE (deceased).
125.—Death of a Vendeen Chief. (Owners, Goupil and
Co., Paris.)

GEO. H. YE WELL, *Perugia, Italy.*
126.—Mosque of Kait-Bey, Cairo.
127.—Carpet Bazaar, Cairo.



WATER COLOURS



- A. ABBEY, *New York City.*
128.—The Stage Office. (Owner, Robert G. Dun.)
- A. F. BELLOWS, *New York City.*
129.—A New England Homestead.
- A. T. BRICHER, *New York City.*
130.—In a Tide Harbour.
- S. COLMAN, *New York City.*
131.—The Cathedral at Quimper.
- H. FARRER.
132.—A Quiet Pool. (Owner, Robert Gordon.)
- R. SWAIN GIFFORD, *New York City.*
133.—Evening in the Sahara.
134.—On the Lagoon, Venice.
135.—Salt Vats at Dartmouth, Massachusetts.
- J. C. NICOLL, *New York City.*
136.—Shower on the Coast.
137.—On the Gulf of St. Lawrence.
- W. T. RICHARDS, *Newport, R. I.*
138.—South-West Point, Conanicut.
- H. W. ROBBINS, *New York City.*
139.—New England Homestead.
- L. C. TIFFANY, *New York City.*
140.—A Stranger's Visit to the Cobblers of Bonfrait.
141.—Market Day on the Cathedral Steps of St. Melaine.

T. WUST, *Paris.*

142.—Sketches of Virginia Negroes.

A. H. WYANT, *New York City.*

143.—A Reminiscence of the Connecticut River.



DRAWINGS



A. ABBEY, *New York City.*

144.—Engraved by David Nichols.

A. B. COPELAND, *Paris.*

145.—Outward Bound.

WYATT EATON, *New York City.*

146.—Portrait of H. H. Boyesen.

GORDON GREENOUGH, *Paris.*

147.—Portrait of Comtesse de Banuelos.

MRS. ELIZA GRETOREX, *Paris.*

148.—House of Talleyrand, New York.

J. E. KELLY, *New York City.*

149.—Measuring Boys.

T. MORAN, *Newark, N. J.*

150.—Engraved by F. S. King.



ETCHINGS AND ENGRAVINGS
ON WOOD



COLE.

J. P. DAVIS.

F. S. KING, *New York City.*

151.—Designs by J. C. BEARD.

MISS F. BRIDGES.

SOL EYTING, JUN.

F. SANDHAM.

T. COLE.

152.—After Various Designs.

WYATT EATON, *New York City.*

153.—Lincoln.

J. A. MITCHELL, *Paris.*

154 and 155.—1. Place de l'Opéra.—2. The End of
the Act.

HENRY MARSH, *New York City.*

156 and 157.—Designs by John La Farge.

158.—Butterflies and Design by John La Farge.

159.—Designs by Mrs. Mary Hallock Foote.

160 and 161.—Designs by Miss Helena De Kay.

FREDERICK MOLLER, *Paris.*

162.—Designs by Lancan.

STATUETTES



ONTAGUE HANDLEY, *Rome, Italy.*

163.—A Rough Day on the Roman Campagna.

164.—A Cattle Driver of the Roman Campagna.

165.—Portrait. (Owner, the Duke of Leuchtenberg.)



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1878



